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FEDERAL TRADE COMMISSION

THE EVOLVING IP MARKETPLACE

Tuesday, May 5, 2009

9:00 a.m.

Co-hosted by the Federal Trade Commission and
the Berkeley Center for Law & Technology,
and the Berkeley Competition Policy Center

Held at the
The Haas School of Business, Cheit Hall
University of California, Berkeley
2220 Piedmont Avenue, Wells Fargo Room
Berkeley, California 94720

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PANEL 1: THE NOTICE FUNCTION OF PATENTS

MODERATORS:

BILL COHEN, FTC

BILL ADKINSON, FTC

PANELISTS:

DAN L. BURK, Chancellor's Professor Law, University of California, Irvine School of Law

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MICHELLE LEE, Head of Patents and Patent Strategy, Google, Inc.

JOHN T. McNELIS, Partner, Fenwick & West

PETER S. MENELL, Professor of Law, Boalt Hall and Director, Berkeley Center for Law & Technology

VERN NORVIEL, Partner, Wilson Sonsini Goodrich & Rosati

LEE PETHERBRIDGE, Associate Professor of Law, Loyola Law School, Los Angeles

KEVIN G. RIVETTE, Chair, PTO Patent Public Advisory Committee

JASON SCHULTZ, Acting Director, Samuelson Law, Technology & Public Policy Clinic

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P R O C E E D I N G S

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MR. ADKINSON: Good morning and welcome to the second and last day of our hearings here in Berkeley. And, indeed, the final day of hearings on our project on the Evolving IP Marketplace. We are welcoming public comments on the project. And the closing day is fast approaching. It's ten days from now, on May 15th. So please get your comments in as soon as possible.

My name is Bill Adkinson. I'm an attorney in the Policy Studies Office of the Office of General Counsel at the FTC. It's my pleasure today to introduce the Notice Panel, the panel that will discuss the notice function of patents.

We have an extraordinary group here. Their bios are posted on the website. I tried my best last night to break with tradition and come up with intros that were both -- did justice to the panelists and were short enough and I failed. So I'm going to give our better introductions, but please encourage you to -- if you are going to be looking at

1 that transcript, or listening to this, peruse the bios, as
2 well. They really are quite -- quite interesting.

3 The Panel is going to address the extent to which
4 the patent system adequately fulfilled its notice function.
5 For example, ensuring the firms who are seeking to develop
6 or license innovative technologies and attain clear and
7 timely information regarding the existence and scope of
8 relevant patents and patent applications. Specifically,
9 panelists will consider how various patent law doctrines and
10 patent examination procedure affect notice through, for
11 example, affecting the clarity with which claim scope can be
12 determined. Panelists will also discuss the extent to which
13 the sheer number of potentially relevant patents can impact
14 effective notice.

15 And, finally, we're going to consider what
16 adjustments might be made to the system in light of this
17 discussion.

18 We have nine panelists who -- we'll start with Dan
19 Burk, who is the Chancellor's Professor of Law at the
20 University of California, Irvine School of Law;

21 Daralyn Durie is a partner at Durie, Tangri, Page,
22 Lemley, Roberts & Kent;

23 Michelle Lee is Head of Patents and Patent

1 Strategy at Google. And she's here despite the fact that
2 she's on sabbatical right now. So we're especially grateful
3 to her for coming.

4 Peter Menell is Professor of Law at Boalt Hall and
5 Director of our host, the Berkeley Center for Law and
6 Technology. So we're especially grateful to him, too.

7 Vernon Norviel is a partner at Wilson, Sonsini,
8 Goodrich & Rosati;

9 Lee Petherbridge is an Associate Professor of Law
10 at Loyola School of Law, Los Angeles;

11 Kevin Rivette is -- not quite here yet, but will
12 be here very shortly. He is the Chair of the PTO, Patent
13 Public Advisory Committee, and a member of the Intellectual
14 Property Hall of Fame;

15 Jason Schultz is the Acting Director of the
16 Samuelson Law Technology and Public Policy Clinic;

17 and, to my left is Bill Cohen, who is a Deputy
18 General Counsel and head of our Policy Studies Office, and
19 is the person who has really spearheaded this effort to do a
20 full and complete effort on studying the notice function.

21 MR. COHEN: Thank you, Bill.

22 And thank you all for joining us. I think we
23 should just plunge right in and then probably start with a

1 fairly general question to get everybody's perspectives out
2 on the table. I think the place to begin is with the issue:
3 How well do you feel the patent system fulfills the notice
4 function? And by notice function, what I'm concentrating on
5 is a enabling firms to identify patent rights that could
6 read on their products -- on products they plan to design
7 and produce. And the provision of information necessary for
8 license things and financing arrangements.

9 So how well do you all feel that the notice
10 function is being fulfilled? And what I'll suggest is that
11 anyone who wants to comment, you can turn your nameplate up
12 on its side and I'll be able to call on you.

13 Michelle?

14 MS. LEE: I speak from the software industry
15 perspective. And, from my perspective, the notice function
16 on patents is not well served at all. That's primarily
17 because many of the software patents are very difficult to
18 understand in terms of meaning and in terms of the scope of
19 their boundaries. This is due to a couple of factors. One
20 is in the software industry, there is a lack of a common
21 vocabulary. And also a lot of the software patents fail to
22 teach of the invention itself. So I'd like to go into a
23 little bit of detail on those two points and particularly

1 the lack of common vocabulary.

2 In contrast to fields such as chemistry, and
3 certain areas of electronics, which have a greater degree of
4 shared common vocabulary and terms with well-understood
5 meaning, such as a carbon atom, resistor, a DRAM. The
6 software industry generally consists of abstract concepts
7 that achieve a certain functionality. And it's up to the
8 software programmer to make up a term to describe that
9 functionality.

10 So when I say, for example, that this is a
11 knowledge engine, or a modified software identifier, there's
12 no commonly-understood meaning. And oftentimes when you
13 look to the written description there's no support in the
14 written description. So you are left with are the very
15 broad terms that do not shed a lot of light on the meaning.

16 Secondly, in chemical fields, if you provide a
17 chemical equation, or a circuit diagram, or a mechanical
18 drawing, it's pretty clear what is taught in those
19 situations. But for software patents there's little to no
20 teaching of the invention.

21 Functional claiming is very prevalent in software
22 patents and code is not required. And at best you get a
23 high level flowchart. And most software engineers don't

1 turn to software patents to determine how to write a bit of
2 code. You might look to a software patent to determine what
3 your competitor is doing generally, but not how to program
4 it or to code it up. So there's not a lot of teaching going
5 on in that space. And so in those two regards there's quite
6 a bit of, well, what I'll call lack of clarity and
7 boundaries in software patents. And there's a failure of
8 notice there.

9 So I'll stop there and I'll let my panelists
10 continue.

11 MR. COHEN: Well, that's interesting. And your
12 focus on the software industry, in particular, leads to the
13 further question, which we should consider at the same time
14 in answering how well does the patent system to fulfill its
15 notice function. Does this vary from industry to industry?
16 Think about that as well.

17 How about Dan?

18 MR. BURK: Sure. Well, I think Michelle has
19 pointed out that it doesn't vary from industry to industry,
20 in part because and of what she's -- what she's indicated to
21 us, which is different industries have different types of
22 nomenclature, different characteristics. So that's actually
23 not surprising.

1 We also shouldn't be surprised if -- particularly
2 in the court system and among those of skill in the art,
3 engineers, or scientists who are reading patents there are
4 the difficulties that Michelle describes in understanding
5 technical terminology. You know, district court judges are
6 typically not scientifically or technically trained. It
7 wouldn't surprise us that it takes them a while to figure
8 out what a particular technical terminology means. So
9 that's clearly an issue but not a surprising issue.

10 The thing I would suggest as a surprising issue to
11 us, and we can see this, you know, when we look at *Markman*
12 hearings, when we look at the process of construing claims
13 in court, is that that's not what the fighting is usually
14 about. All right, we now have a long series of cases where
15 people spend millions of dollars fighting over terms like,
16 "through", "the", "a", "to", "beside."

17 So aside from the technical problems that you
18 would expect to vary from industry to industry, and you
19 expect to be a problem in a patent system as being
20 administered by -- at least partly administered by people
21 who aren't technical experts, there's the problem of
22 indefiniteness and lack of notice, due to indeterminacy
23 about what you would think would be very common terms that

1 even a non-technically trained judge would be able to deal
2 with.

3 Now part of that is just language, right.
4 Language is imprecise. That's why we have law schools,
5 that's why we train lawyers. Lawyers are good at playing
6 word games for their clients. That's what we teach our
7 students to do. So, again, that wouldn't be terribly
8 surprising. But the very nature of the claims I would
9 suggest contains a fundamental problem, which is we often
10 like to compare patents to the meets and bounds of a
11 description of physical property. Real property is the
12 usual analogy.

13 When we deal with patent claims, though we are in
14 quite a different situation, right. We're not talking
15 about, first of all, language that has a fairly socially-
16 stable determined meaning, like you might have survey data
17 or GPS data, or some other way of describing physical
18 property. You're not dealing with a stable and
19 deterministic type of thing, you know, reals, like a piece of
20 physical property.

21 You're dealing with an invention, right, which may
22 have lots of embodiments, some of which may not have even
23 been thought of by the inventor at the time the claims were

1 drafted. So there's an inherent problem of notice within
2 the concept of peripheral claiming itself that we say is now
3 central to our patent system, that is in addition to the
4 problems that Michelle has already started to point out to
5 us.

6 MR. COHEN: How about Vern?

7 MR. NORVIEL: So I only work in the healthcare
8 industry. All I do is start small biotech companies. So
9 that gives you my bias. And since we're in Berkeley, I
10 guess I can take a radical view maybe that perhaps things
11 aren't too terribly broken.

12 And the reason I say that is -- and I think it's
13 very important that we not try to fix things that aren't too
14 terribly broken. We have a healthcare system in the United
15 States that does produce innovation. It is by far the
16 leading innovator in the world. Biotech companies are
17 financed.

18 I was at Johns Hopkins University yesterday
19 working on companies that are starting. They have -- one of
20 them has a stem cell technology to repair Achilles tendons.
21 The other has a microfluidic technology to help pick the
22 right drug for a cancer patient. These are extremely
23 important things.

1 In the healthcare industry there is zero tolerance
2 on the part of investors and partners for patent
3 infringement. So I live in an industry where we must figure
4 this out or money doesn't flow. And in fact we can figure
5 this out and companies are financed routinely.

6 I think that maybe there are some differences
7 perhaps in the way the system is implemented, is what my
8 assertion would be. In healthcare in the Patent Office,
9 things like written description and enablement are extremely
10 rigorously enforced. The laws have been there for a long
11 time. There are lots of foggy situations in biology, but
12 the examiners don't let you get away with it.

13 So the patent system, -- when we go through and
14 start a company we can go through thousands of patents and
15 we can figure out if there's a problem or not. And
16 investors will put money in based on that.

17 So we need to be very careful, I think, if we go
18 tweaking the system too much, to make sure that we don't
19 throw out a very important part of our system. It's
20 creating great healthcare innovation. The Silicon Valley
21 high-tech investment actually was beaten out by biotech
22 investment for the first time a year or two ago. So it's
23 creating a great number of jobs in our system, especially

1 here in the Silicon Valley, San Diego, Boston, places like
2 that. So I think we need to be very careful not to throw
3 the baby out with bathwater here.

4 MR. COHEN: Now we've heard different perspectives
5 from different industries. Let's try Lee Petherbridge.

6 DR. PETHERBRIDGE: Thank you. So I think I
7 actually want to actually echo some of Vern's comments and
8 sort of talk about them a little bit more generally. I mean
9 I think that the notice of patents can probably -- the
10 notice function of patents can probably be improved. But I
11 don't know that it's a foregone conclusion or altogether
12 clear that the notice function of patents isn't sort of
13 effectively fulfilled by many patents. Right.

14 And I think if you take sort of just a general
15 look at things, by some counts there are 1.7 or 1.8 million
16 patents in force. Only a fraction of those are really
17 thought to be of any economic significance. Only a fraction
18 of those produce actual disputes between firms. And, of
19 those, only a fraction involve the filing of a complaint, an
20 infringement complaint. And of that fraction, only a
21 fraction reach a judicial decision on the merits. And, of
22 that fraction, only a fraction are appealed. And of those
23 that are appealed, the Federal Circuit agrees with the trial

1 court's determination of what the scope of the patent
2 actually is just over two-thirds of the time. All right.

3 So from that perspective -- and then the Federal
4 Circuit is doing maybe 80 to 120 claim constructions maybe
5 in a year. Right, and so, you know, when you start with 1.7
6 million or 1.8 million patents, and you are down to these
7 kinds of levels of disputes, you might say to yourself that
8 many patents might actually be drafted reasonably well and
9 they might actually provide pretty good notice, at least in
10 general terms, which might suggest that radical fixes might
11 not be needed and, in fact, may be something more marginal
12 would be appropriate.

13 On the other hand, I mean so I think some of those
14 figures at least suggest there might not be a major notice-
15 function problem with many patents. But, on the other hand,
16 I think conceptually some conceptual work has shown and, I
17 think kind of convincingly, that there are lots of
18 incentives for patentees to at least be vague, if they can
19 be vague, and to maybe not spend lots of money trying to get
20 patents and not trying to get expensive patents, if you
21 will. And, in fact, maybe the incentives are aligned in a
22 way to try to get lots of patents that are sort of a fairly
23 vague so that there is some uncertainty about the scope. So

1 I think, you know, conceptually I think conceptual argument
2 sort of pushes back a little bit against what some of the
3 numbers might suggest.

4 And then I think this is a little bit amplified
5 from maybe another conceptual perspective, which is to say,
6 I think in sort of -- particularly since the *Philips* case,
7 claim construction law has just sort of moved in the wrong
8 direction in a way that sort of is going to cement an
9 approach to claim construction that's going to lead to
10 potentially, at least in the future, more claims that
11 present themselves to judges and ultimately to the Federal
12 Circuit, where they are sort of equally plausible
13 interpretations for both parties.

14 MR. COHEN: I think I'm hearing lots of different
15 elements, and perhaps to draw it together, would the rest of
16 you -- have you comment on the notice function, in general,
17 if -- you might want to think about helping us understand if
18 there is a notice function, what is its nature? Is it --
19 are we talking about an inability to adequately identify and
20 evaluate relevant patents because of their sheer number?
21 We've heard a little bit of that, but we've heard a lot more
22 in the discussion to this point already about an inability
23 to understand the likely scope of existing claims. And I

1 think I've heard a bit of a hint of talk about an inability
2 to project the likely range of claims that would flow from
3 an application. Is it one of these? Is it all of these?
4 Is it something else? Think about that if you address these
5 questions, as well.

6 Let's try Daralyn, over here.

7 MS. DURIE: Thank you. I come to this from the
8 perspective of a litigator who represents clients in a wide
9 range of art areas, including pharmaceutical and
10 biotechnology, as well as software and information
11 technologies. And I do think that there is a significant
12 difference, depending on the industry that you are in and
13 how you perceive the problem.

14 In my experience in the pharmaceutical and
15 biotechnology areas, it is generally reasonably easy to
16 ascertain at least with that universe of potentially
17 blocking patents for a particular technology might be.

18 I think that patent clearance studies are perhaps
19 conducted less rigorously when you're talking about things
20 like processes, methods of manufacture, purification
21 techniques and things like that, because there is always the
22 possibility of a design around, although even there there
23 might be regulatory implications. But in general, I think

1 that the reason that it is easier to do that sort of patent
2 clearance work in the pharmaceutical or biotechnology
3 context comes right back to what Michelle started out by
4 saying, a relatively predictable set of terminology that's
5 used and, as was noted earlier, a more rigorous enforcement
6 of written description and the requirements of this
7 specification actually described that claimed invention.

8 In my experience on the IT side, it is virtually
9 impossible to conduct a meaningful patent clearance, if
10 you're talking about a product has a number of different
11 components and that is complex.

12 We recently undertook this exercise for a company,
13 with respect to one particular feature of one particular
14 product targeted to one particular company and their patent
15 portfolio. Even that enterprise again, you know, addressing
16 only one feature of the product involved identifying the 160
17 patents from that company's one portfolio that might
18 potentially be of interest and then trying to narrow that
19 universe down to the patents were there might be
20 infringement issues.

21 Two the extent that you're dealing with things
22 like chips that you get from vendors, of course, it's often
23 impossible to perform any meaningful infringement analysis.

1 And then narrowing it down further, not even looking at
2 validity and trying to understand the scope of the risk.

3 An enterprise like that, again, one feature of one
4 product, looking at one company in a subset of their
5 portfolio runs into the hundreds of thousands of dollars.
6 Extrapolating that out and trying to imagine the cost
7 associated with performing comprehensive patent clearance
8 work on a complicated product in the IT space, then you're
9 talking millions and I think potentially tens of millions of
10 dollars to evaluate a lot of patents, most of which never
11 would see the light of day litigation, because we know that
12 so few patents are litigated.

13 So you are spending an enormous amount of money
14 with respect to the risk at the end of the day that probably
15 is attendant to only a very small number of the patents that
16 you have to evaluate. But because that risk is a function,
17 not just of the quality of the patent claims but also
18 underlying business considerations regarding, you know,
19 whether the entity is practicing or not, and what their
20 incentives are, whether they would have the ability to fund
21 litigation. Who's holding the patent? Is not even as
22 simple as simply looking at the quality of the claims.

23 So I think in the IT space, as a practical matter,

1 I know of very few companies who try to conduct
2 comprehensive patent clearances. And I think that's just
3 because it's not feasible.

4 MR. COHEN: I'm going to try to get everybody in
5 on this first problem. Why don't we turn here to Jason?

6 MR. SCHULTZ: Okay. Thanks. So I think everyone
7 has been identifying some of the annoying issues around
8 notice, in particular, information costs and transaction
9 costs, right? I mean, how much does it cost to do a patent
10 clearance, or can you tell what your competitors are
11 essentially patenting? You know, are the claim construction
12 issues so burdensome that you might settle the case.

13 I mean, so actually I think it's interesting to
14 think about what kind of metrics evaluate notice. If there
15 aren't a lot of disputes, that might be a good thing for
16 notice, as a value there or it might be a bad thing.
17 Because if I can figure out what it costs -- it's going to
18 cost me, or if I can figure out if I infringe, the burden of
19 the information transaction costs are so high, I might
20 settle the case even though I think I have a good case.
21 Right.

22 So I think the metrics that we evaluate notice on
23 are important to think about in both the information and the

1 transaction costs space. One of the things that we do at
2 the Samuelson clinic is we represent people who can't afford
3 lawyers. So we take on people who are non-profits, or very,
4 very small pro bono cases, who actually have patent issues.
5 They exist out there. They run websites. There are
6 nonprofits trying to create medical devices. There are, you
7 know, educational institutions who get threats around
8 distance learning from companies that claim to patent that.
9 And these people are in a very different situation than the
10 ones who can litigate. I mean, the ones who can litigate
11 aren't in a great situation, necessarily, but it's a
12 different situation.

13 And so I want to focus on two things that I think
14 are important to think about. One is, is this information
15 transition cost issue in particular as a temporal matter?
16 When do you have to assess that issue? Right. So do you
17 assess it from a clearance freedom-to-operate point of view?
18 Someone comes to you, wants to create a product, or wants to
19 do something in those. But there might be patents out
20 there. Do you assess it at the point when they get a cease-
21 and-desist letter? And do you assess it then later when
22 you're maybe in litigation, or if you're thinking about a
23 re-examination or an opposition in another country,

1 something like that?

2 And I think the notice problem is a little
3 different at each stage. I think the moment you encounter,
4 the problem might change those costs. Because I think
5 Daralyn made a great point about like if you're -- if you're
6 trying to figure it out early on in the business cycle or in
7 the product cycle versus if you are in court and there's an
8 accused device, and you at least have some sense of what
9 claims are being asserted, things like that, it's a
10 different problem.

11 So that's one thing is the temporal nature of it,
12 I think, changes -- and then particular for the clients I
13 represent because almost none of them can really sustain a
14 litigation. So they look mostly to other alternatives,
15 design-around, re-examines, or -- or if they can get a
16 license for almost no cost.

17 The second is consistency. And that is that -- I
18 think, one of the problems which we can talk about later
19 when we talk about prosecution too, is does the scope of the
20 claims potentially change over time and what about the
21 applicant or inventor and what they say about the scope of
22 the claims? Then we'll get into that, too. But I think
23 consistency of what the applicant or inventor wants the

1 claims to cover is an area that needs to be focused on more.
2 Because I think their's a lot of wiggle room and the
3 changes. As anyone who's been in patent litigation knows
4 that changes a lot, what they say at one point versus
5 another.

6 The last thing I want to say, also I just
7 remembered, is about transparency about the information
8 about the patents themselves. And we can talk about this
9 later, too. I mean, there's been a real wealth of
10 information that's come out in the last five or 10 years
11 that you can get access to in terms of file histories for
12 patents, in terms of when the patents issue, in terms of
13 searching technologies. And I think that's a really
14 powerful area to look at, as well as how much information
15 can we find out at low information cost?

16 MR. COHEN: Let's take John and then we will
17 return to Peter.

18 MR. McNELIS: Thanks, Bill. In order to provide a
19 better context of my perspective, I along with my firm
20 Fenwick and West work with companies to create and execute
21 their patent strategies. And we work with a wide variety of
22 companies, both in terms of size and in technologies, from
23 small start-ups, or solo inventors whose sole existence,

1 entire existence of their company depend on protecting and
2 in developing their intellectual property, to large
3 established companies whose innovations are in a wide
4 variety of areas.

5 A unique aspect of our practice is that we work in
6 both the life science and in the information technology
7 area. So we see the differences in those areas daily. In
8 one area where there is a huge difference is in the notice
9 requirements.

10 One example of that is if you're looking to do a
11 product clearance search or a freedom-to-operate search.
12 And when you -- when you look at that, there's three main
13 areas that we look at. The first one is scoping the search.
14 The second one is dealing with the lexicon, as Michelle
15 mentioned earlier. And then also dealing with some of the
16 limitations in publications.

17 Let me just go into a little bit more detail in
18 terms of the differences between the life science and the
19 information technology area, when you're trying to scope a
20 product clearance.

21 In life sciences, that Daralyn mentioned earlier,
22 the scoping of the search is much easier to do. There's
23 typically a situation where you're dealing with a handful of

1 patents that are dead on your particular product, at least
2 when you're talking about chemical compositions. It does
3 get more difficult when you're dealing with processes.

4 But if you have a diagnostic or a specific
5 chemical or a DNA sample, a snippet, that you're dealing
6 with, you can do a pretty detailed search and be confident
7 that you're finding those patents that are right on top of
8 what you are doing.

9 Kind of a with a nod to old-time Chicago voting,
10 you want to do searches early and often. And they do that -
11 - life science companies typically do that because of a
12 number of reasons, not the least of which is the FDA
13 clearance and the clinical trials. You're spending millions
14 of dollars developing this product and bringing it to
15 market. You want to make sure throughout every step of the
16 process that you're catching anything that has come out in
17 terms of the interim between searches.

18 In contrast, in the IT area, a single product can
19 have hundreds of different features and each of those
20 features can trigger hundreds of patents that are of
21 interest.

22 One example, if you take a portable music or a DVD
23 player. That particular product, if you're going to bring

1 that to market, you'd have to deal with power supplies,
2 displays, user interfaces, amplifiers. If you're -- you'd
3 have to be doing some kind of decoding. So you would be
4 working with the MPEG standard, maybe the MPEG-4 standard.

5 We do license clearances for the MPEG-4 standard.
6 There's over 200 patents that are central just to that one
7 standard. So with one feature in one product, you're
8 dealing with 200 patents. You add wi-fi capabilities to
9 that, you're looking at another hundred-plus patents.

10 So a simple, reasonably simple product, like a DVD
11 player, you're looking at upwards of 500, maybe 1,000
12 patents that are of interest.

13 We did -- I'll generalize it a bit, but we did a
14 search for a casino company looking for a new casino
15 product. And we have to scope the problem. We have to
16 identify the number of features that they wanted us to
17 search, because there are too many in a new product to
18 identify.

19 Ironically, this casino company wanted 21 features
20 for us to look at. We looked at that and we then had to
21 scope not only the features but, because of the lexicon
22 issues, we have to figure out what the best way was for us
23 to do the searches.

1 You can do some general patent searches with
2 regard to the terms, but there's so many different ways to
3 describe similar features, in particular in the IT area,
4 that one of the strategies we employ was to take a look at
5 their -- the major competitors of theirs. And we tried to
6 focus it on that.

7 One of the problems we ran into, which I think
8 we'll talk about potentially later, is the assignments are
9 not always in order. Some -- some companies like to play
10 games with the assignments. So we actually have to go and
11 do a search based on specific inventors and then cross-cite
12 specific inventors to try to catch all the elements. We
13 came up with over 3,000 patents just on those 21 features.
14 And we know it wasn't -- we know we didn't catch everything,
15 because we didn't -- we only searched particular companies,
16 we only searched particular terminologies, and so we know we
17 missed everything. And the search, we ended up having to
18 narrow that down significantly. But that's an extremely
19 expensive process in the IT area, where it's a much more
20 manageable process in the life science area.

21 MR. COHEN: Okay. Let's take Peter.

22 DR. MENELL: I prepared a presentation. I don't
23 know if this would be the right time. It tries to

1 conceptualize some of this. But I don't want to --

2 MR. COHEN: If you can just try to fit it into,
3 you know, just an overview response to how is the notice
4 function working. I understand you have like maybe four
5 slides or something you thought would illustrate this.

6 DR. MENELL: Yeah, it's --

7 MR. COHEN: That would be helpful. But -- but we
8 are trying to keep this to a discussion format as much as
9 possible.

10 DR. MENELL: I agree, and I will try to keep this
11 very concise. And in fact a lot of the elements, I think,
12 are on the table. So the idea in sort of an academic frame
13 is to try to come up with a lexicon for characterizing the
14 nature of this problem. And I do think it is a problem
15 that's -- that's not fully mapped out in terms of the
16 classic reference point, which is what are the market
17 failures that patent law and, in particular, the notice
18 features are attempting to deal with.

19 The classic problem for which patent law exists is
20 to provide for appropriability. And I won't dwell on that,
21 but the problem has been commented on throughout this two-
22 day conference, is that we want to provide incentives. And,
23 when innovations are easily observable, then it's going to

1 be important that there be some extra-market way of
2 appropriating.

3 Now in thinking about the problem for this panel,
4 it strikes me that in solving this first externality
5 problem, we're creating a second externality problem, which
6 I'll call a notice externality. And the characteristics of
7 this externality is that someone who's trying to build a new
8 business or create a new technology has a very high
9 overhead, because of the problems that have been talked
10 about in the context of particularly IT.

11 And I would say that it really, you know, is a
12 clearance problem. And you could characterize other areas
13 of assets as having clearance problems, but these are quite
14 distinctive. And they're distinctive in part, and I don't
15 think it's just a vocabulary issue. I agree completely with
16 what Michelle and Daralyn commented on. But chemistry maps
17 more like a two-dimensional space.

18 We've got periodic tables. We've got molecular
19 structures. Once we move outside of those areas, it's not
20 simply vocabulary. There -- I mean we would have to make
21 dramatic advances in how we understand software and
22 innovation relating to these very abstract conceptual
23 innovations in order to really have parity with these other

1 areas.

2 So we can talk about direct costs, and Jason and
3 others have talked about that, really the straightforward
4 search and validity assessments. And then there is this
5 cost which John just referred to. It's the unknown-claim
6 cost. The cost where you can't easily find the art.

7 So we could -- I'm going to use the metaphor that
8 Dan began with, which is the real estate metaphor. Okay.
9 So if my neighbor and I are deciding on what to do with the
10 border between our properties, we can for about \$600 hire a
11 surveyor who's going to come and give us what is a very
12 reliable measure of where a boundary fence can be built.

13 But if we compare that to intellectual space, the
14 footprint of ideas,- and I've represented that was a lot of
15 lightbulbs, is not two-dimensional, it's multi-dimensional
16 in ways that trigger these costs. And we see in the
17 different systems different ways in which we try to manage
18 those search costs. In the land context, we do it through
19 registries. In the patent system we've got now searchable
20 indices. We have Google's product, with have the Patent and
21 Trademark Office product. But those are very rough tools in
22 terms of being able to do -- I mean what we would like is to
23 have another Google product, is Google maps. Okay.

1 We want to have really taxonomical advances. And
2 if we look over in Europe, I think they put more emphasis on
3 trying to come up with ways of -- of finding it. But, you
4 know, this is an area that the Patent Office and people
5 concerned with this problem should be very focused on. I
6 mean we should have much more science of the taxonomy of
7 patents if we're going to deal with this issue, and we put
8 no resources into that problem. It's really -- you know,
9 the only resources we have now are Boolean search
10 capabilities. But, ideally, we would be coming up with the
11 equivalent of periodic tables in the IT fields. We would
12 try to deal with these fuzzy, overlapping boundary issues as
13 a way of making the patent system tractable. And that only
14 solves half of the problem, though.

15 Even if we had good maps, the other problem which
16 has been raised here is the claim-construction problem. Lee
17 highlighted it very well. We have what I'll call validity
18 costs, which are even if you found all of those parcels that
19 potentially encumber your business, you still have the
20 problem that the opinion letters and claim-construction
21 processes are really indeterminate.

22 And I can tell you from a lot of experience in
23 judicial education programs that it is almost comical. I

1 did a program last week in Minnesota with 12 district judges
2 where we argued three *Markman* cases, mini *Markmans* to three
3 sets of judges in groups of four. And we asked them to
4 evaluate, you know, which argument they found more
5 persuasive and to estimate their confidence level: High,
6 medium, and low. Okay. So on two of them the judges had
7 either high or intermediate confidence level. And, among
8 the three panels, they split evenly. So they were highly
9 confident, and they came out differently. On the third,
10 which is a very complicated technology, they had low
11 confidence and they also split evenly.

12 So, you know, that tells you -- I mean part of the
13 reason we did is was just to help the judges realize that
14 you shouldn't feel badly when you get reversed by the
15 Federal Circuit. When you do this exercise, you're going to
16 see that it is a highly indeterminate -- it's really risk
17 management. This is not defining boundaries. This is
18 helping clients manage risk, which is a very difficult
19 problem.

20 So what are some things we could do about this?
21 And I just will put up a menu of issues and maybe --

22 MR. COHEN: And we will probably discuss most of
23 them as we move forward.

1 DR. MENELL: Yeah, although some of these are a
2 little crazy. You know, I'll put this out here, because I
3 came out with these ideas really using the economic frame.
4 How do economists talk about internalizing these kinds of
5 problems or reducing these externalities?

6 Well, one thing, the economist always come up with
7 first, which is always the least feasible, is pricing it,
8 taxes. But we've already heard -- even yesterday, we heard
9 -- I think it was Marshall Phelps said, you know, maybe we
10 should have differential incentives here.

11 Well, one way is that the application fees could -
12 - and I know people out here will say this is ridiculous,
13 but it's just an idea. We could actually have different
14 application fees in different arts, based on some rough
15 metric of what we think these costs are. And that I think
16 would have a deterrent effect, is if you're going to file a
17 patent in an area that you're not really sure is worth
18 filing, well, you should bear some of the costs you're going
19 to impose on other people who have to navigate that patent.
20 Now that's very hard to do, but at least one thing that
21 we've heard here is that that price could very feasibly --
22 you know, I mean we could make a categorical distinction
23 between chemistry and IT.

1 Now one of the things we could do with those taxes
2 -- or from other sources, is we could subsidize innovations
3 in taxonomy I mean, the classic subsidy solution and, it
4 seems to me, we ought to -- given the problems that this
5 panel has already identified, we ought to pay money to -- to
6 help companies reduce -- this is a problem where government
7 can do it better than an individuals. I mean there are some
8 private solutions. I'm sure there are title search
9 companies that, you know, are emerging and provide. But
10 there is, as Daralyn explained, you know, when a company
11 comes to you, you're still going to have to do a lot of the
12 legwork yourself -- and if there were some ways of doing it.

13 Then a lot of the issues, I think, have at least
14 some benefit, if you improve examination, that's a general
15 solution, obviously higher quality and higher speed. Part
16 of the problem is given that you can't even know about some
17 of these patents, and so after your --

18 MR. COHEN: That is a topic we will return to.

19 DR. MENELL: Okay.

20 MR. COHEN: So if --

21 DR. MENELL: I won't come back to that.

22 Opposition, bounty systems, peer to patent. These
23 are all things.

1 And, in terms of doctrine, for me it -- and I --
2 I'm -- I'm not even necessarily the mainstream here. I
3 think 101 would actually have -- and dealing with 101 in a
4 way that I think constrained patentability, particularly in
5 -- in the software arts and business methods, would reduce
6 this problem, given the a lot of the problem is focused in
7 that area.

8 What Dan mentioned this idea of peripheral versus
9 Jepson-type claiming, I think makes a difference, because it
10 -- it helps to better define what people are -- are
11 claiming, rather -- I mean, peripheral claiming is, I think,
12 adding some of the vagueness here. There are some
13 doctrines, description doctrines, indefinite doctrines, that
14 can play some role.

15 Now here is -- I think is somewhat outrageous
16 proposal. But I kind of like it and will be interested. I
17 don't know why we have 18 months delay on publishing.

18 Now one of one of the reasons that I've heard is
19 that the Patent Office is so slow, that that's a reason to
20 give companies a little more flexibility. But in an ideal
21 world we wouldn't have a delay in publishing applications.
22 One of the places -- one of the cost that you have of
23 delaying publication is when you get into litigation. You

1 know, a lot of the battles over the protective order and how
2 you're going to deal -- I mean, if someone thinks that
3 they're claiming something, maybe we should ask why they
4 should be able to keep that secret for some period of time.
5 Why should that --

6 MR. COHEN: Again a good idea, but what --

7 DR. MENELL: Okay.

8 MR. COHEN: -- I think --

9 DR. MENELL: Okay.

10 MR. COHEN: -- we should get to --

11 DR. MENELL: Okay. Doctrine of equivalents,
12 another area that introduces vagueness and the independent
13 invention defense, or limitation of remedies, have the
14 benefit, in this context, of reducing the problem from
15 another direction. So it basically gives companies that
16 follow a certain procedure some greater ability to operate
17 in a space that has the properties we've talked about.

18 I'll leave it there.

19 MR. COHEN: Thank you. You've set out many of the
20 topics that we'll be touching on throughout this -- today,
21 plus a few things that I don't think we would have thought
22 of. So that's very helpful.

23 I think maybe, Kevin, you haven't yet contributed?

1 And then we can move on.

2 MR. RIVETTE: Oh, I never contribute.

3 MR. COHEN: Let's get everybody on the -- with
4 their views, first.

5 MR. RIVETTE: Assuming facts not in evidence.

6 So I think, from my perspective, one, I would go
7 back to what Vern started us off with: Yeah, we got
8 problems, yeah, there are issues. But let's not throw the
9 baby out with the bathwater. The system works.

10 If you take a look at what Peter was just talking
11 about, with the issues of the messiness of the process.
12 Well, you know that the whole legal system is messy. We
13 don't have a system that's precise in that regard in the
14 legal system.

15 With regard to notice, I think we probably got
16 more notice now than we've ever had in -- in the whole
17 system. I actually went around the world in the early '90s
18 and picked up all of the patent data and created the first
19 patent database. And with that, we use natural language and
20 semantic analysis and visualization to actually avoid some
21 of the taxonomy problems. But I do agree with you, if you
22 want to follow any money to the Patent Office, I'm 100%
23 behind you. We need every single penny we can find.

1 I think that the -- you know, the issues around
2 claims, definitions and structures, we should probably touch
3 on extensively, because I think a lot of these can be solved
4 in those manners.

5 I think the assignment database that you mentioned
6 actually has to be something that we fix. But I guess
7 overall I look at it and, yes, it's been tough to do
8 clearances. It's always been tough to do clearances. All
9 you got to do is go back and look at steamboat patent wars,
10 sower -- sewing machine wars, you know, electrical motors,
11 when everything had to be done with the -- going to the
12 shoes and looking through every single patent.

13 So I think this is a messy process, but I don't
14 see a process that's -- it's better at this point in time.
15 So I think there are some things we can get done. But I --
16 I do agree with Vern, throwing out the whole system, or
17 radically shifting it, is probably going to cause more
18 problems than it's worth.

19 MR. COHEN: Okay. We've heard an array of
20 thoughts on the issue. And let's try to take it a little
21 further at the level of generality and then move into
22 individual issues.

23 I guess what I want to ask is if there is a notice

1 problem, or to the extent that there is a notice problem, is
2 it something that's best addressed up front, by making
3 claims and potential claims during the prosecution process,
4 better understood, more easily found, and better understood,
5 or is it something that's better addressed, after patent
6 issuance through various forms of -- various mechanisms that
7 could be used after the issuance? What are the
8 considerations that bear on whether you would want to --
9 whether we need to tackle this early or better off waiting?

10 How about Dan?

11 MR. BURK: Well, let me -- let me begin to answer
12 that by -- by underscoring. An initiate, I think, came out
13 in the first round of questioning and that Peter had started
14 help us thinking about, which is if this were simply a
15 terminology or nomenclature issue, we would expect this to
16 work itself out over time, right. The chemical arts have
17 been around for a couple of hundred years as a -- as a
18 discrete science. As Michelle and Vern pointed out, they
19 have very stable nomenclature developed by international
20 bodies like IUPAC. And we could just say, "Well, you know,
21 the IT is having some -- industry is having some growing
22 pains, hasn't been around all that long, comparatively. And
23 so, you know, as time goes on maybe this will work out. In

1 fact, you know, I like the idea of -- of investing in some
2 information science. But you might even expect the private
3 sector to work that out, right?

4 I mean if I could figure out a way to do what
5 Peter calls a periodic table for information technology, or
6 easy access for information technology, I could put a whole
7 bunch of out-of-work philosophers to work, doing ontology
8 for me and I'd probably make a whole lot of money from
9 people like Michelle and others, who -- who are having
10 trouble.

11 So, you know, we could expect may be things to
12 work themselves out if it were just a nomenclature problem.
13 I think something that was not highlighted in the last
14 round, but which was there was it's not just a nomenclature
15 problem, right. But it's the nature innovation in different
16 industries. And we're talking about the chemical arts.
17 We're talking about usually pretty discrete inventions. All
18 right. We're talking about a molecule, or a family of
19 molecules. But when we're talking about semiconductors or
20 other IT products, we're talking about things that have lots
21 of components, each of which may have multiple patents on
22 them. And so we're talking about, you know, composites that
23 are very different.

1 And -- and the question is, you know, can those
2 bolts of be addressed in the same system, part of the
3 problem is that's a moving target. All right, I -- I
4 wouldn't try to predict the nature of innovation, even in
5 the chemical arts. Maybe we'll have multi-component
6 inventions in biotech and in chemistry, as time goes on.

7 So, as you say, where do you address that?
8 Obviously, I have an opinion on that. I've, you know,
9 written a fair amount with Mark Lemley about this. In fact,
10 we have a book which is now available at fine book-sellings
11 everywhere. And the title is *The Patent Crisis and How the*
12 *Courts Can Solve It.*

13 And the question, going back to Peter's economic
14 framework is, can you institutionally -- do you want someone
15 to try and figure this out before the fact? You know, ex
16 ante, which is what the Patent Office examination process
17 tries to do, or do you want to try and sort it out Ex-post,
18 after the fact, which is what the courts and maybe something
19 like a post-Grant opposition, type of procedure would do.

20 Our view is that you can only sort it out after
21 the fact, first of all, for practical reasons. Lee pointed
22 out that, you know, we don't fight about most patents,
23 because most patents aren't worth fighting about. So there

1 needs to be some sorting process to figure out which ones
2 you want to fight about.

3 And, number 2, you need to figure out where things
4 have gone, right? That's much easier than figuring out
5 where things are going. Patent examiners are not crystal
6 ball gazers. The Patent Office doesn't see a large part of
7 the patent system, which is the infringement and analyses
8 that we've talked about.

9 And so, you know, we can discuss this more, but
10 for reasons that I've articulated elsewhere, it seems to me
11 that the court system, or maybe some type of administrative
12 post-grant position system is the place you have to figure
13 out what -- what you're asking.

14 MR. COHEN: We've got a voice for after the fact.
15 Let's try -- let's try Lee.

16 DR. PETHERBRIDGE: I think for me the answer to the
17 question is not either before or after the fact. I think --
18 I think that the -- I think marginal improvements can be
19 made sort of all over the place. And so I think, for
20 example, there are legitimate things that can be done after
21 the fact. I think that there are legitimate things that can
22 be done ex ante that -- that I think might be valuable to do
23 in terms of gathering information and trying to head off

1 some of the information costs that -- that actually develop
2 through prosecution.

3 And I think you can also use rules, legal rules,
4 that are in place, that sort of operate both before and
5 after the fact. And then so they sort of -- they provide
6 sort of the -- the framework for the way in which these
7 analyses are conducted, rules like perhaps getting rid of
8 the doctrine of equivalents, for example, things that would
9 cause people to have to take certain steps and incentivize
10 people in the proper ways, sort of all along the process of
11 not only obtaining patents, but also in making decisions
12 about patents, after patents have issued.

13 So, I mean, in general terms I think the answer to
14 this question is -- or I would rephrase the question as
15 saying it's -- it's not really a before or after thing, it's
16 a -- it's sort of from all -- all angles, kind of a thing.

17 MR. COHEN: Michelle?

18 MS. LEE: Yeah. So this is an easy answer for me.
19 I mean, clearly, the earlier the better. I mean, if our
20 goal is to create patents that provide notice, we need to be
21 writing patents with clear scope, from the beginning, during
22 prosecution, doing everything that we can so that the public
23 is on notice of what monopoly right is being granted.

1 That's a very, very strong right. And it should not be
2 granted with vague scope and vague claims.

3 So I think it is incumbent upon the Patent Office
4 and the applicant to define that very specifically, to have
5 enough support in the specification to describe it in enough
6 detail so that people reading it know what it covers. And
7 litigation is a very, very expensive way, far on down this
8 road. You hit inadvertent infringers, right? Businesses
9 have invested a lot of money in providing the product into
10 the market to stream. And to deal with that issue, in
11 litigation, after a product has launched, is tremendously
12 costly for society, plus it does a disservice to the public
13 and to subsequent inventors, who come along later on, who
14 claim inventorship over an aspect that the first inventor or
15 claimed they had coverage for, but there wasn't quite enough
16 detail in the patent, to begin with. So I think early
17 notice -- fixing the problems early on for notice is
18 critical.

19 MR. COHEN: Daralyn.

20 MS. DURIE: Well, I don't disagree with any of
21 that. But I come to this from the perspective of a
22 litigator, who often gets brought in after the dirty deed
23 already has been done. So while I agree very much with the

1 need to consider the issues '86 ante, I want to talk about
2 some of the things that come up after the fact.

3 I want to start by saying that while it is true
4 that litigation in general is messy. I think the messiness
5 of patent litigation is different in kind, not merely
6 different in degree. Patent litigation is, we all know,
7 extraordinarily expensive. And I think that the amount of
8 money that people are willing to invest in the enterprise
9 speaks volumes to the uncertainty of the outcome and its
10 unpredictability. That unpredictability is manifest,
11 particularly in the area of claim construction. And it's
12 not just a function as was indicated as sort of the need for
13 -- for language to evolve. But I think it's a function of
14 the fundamentally poor fit between language, on the one
15 hand, and what it is that we're trying to describe, on the
16 other.

17 I was a graduate student in comparative literature
18 before became a lawyer. I often say that was the best
19 possible training for claim construction. And I'm not
20 joking, because I think it is the very rare case where there
21 is not a potentially dispositive claim construction issue
22 that absolutely could go either way and where you could not
23 find a judge to go the way. And it's because I think it is

1 less true in the chemical area, because if you're talking
2 about a formula for molecule, you know what you're talking
3 about. There is a tight fit there between the chemical
4 structure and the thing you're trying to describe.

5 When it comes to the English language, and if
6 you're trying to describe this, you know, it's -- there's a
7 much -- there's a much greater amount of imprecision in the
8 fit between the words and the thing that you're trying
9 describe.

10 I think you'll a way to remedy that is to try to
11 focus much more on the written description as a guide to
12 claim construction and not have it simply be something that
13 comes into play after the fact when you get to validity.
14 Because claim construction, again from the litigation
15 perspective, is an even playing field. And to the extent
16 that the scope of the claims is truly constrained by the
17 invention that's described, you have a lot more
18 predictability.

19 Validity, the other hand, is much more often a
20 jury issue and is just -- and, you know, the deck is
21 stacked. There's a presumption there. And so to rely on
22 written description as the ultimate sort of policeman,
23 rather than claim construction, I think does a disservice to

1 the process and also increases legal fees, because it comes
2 significantly later on in the process. Go ahead.

3 MR. COHEN: Vern.

4 MR. NORVIEL: So maybe I'm going to start with
5 what I can perceive to be a misconception, which is life
6 science's chemistry. Nothing can be further from the truth.
7 I would say that maybe five or ten percent of the patents
8 that are dealt with in life science or chemistry, they
9 definitely are much more clear. And they're not the issue.

10 If you're clearing a technology like, say, DNA
11 amplification, or sequencing technology, the clearance
12 studies are very massive. In amplification or sequencing,
13 you're probably talking 8,- or 10,000 patents that you have
14 to clear to start a company.

15 So the issues actually are the same in life
16 science. I -- I disagree with that to some extent. And the
17 terminology is extremely rapidly evolving. I would say,
18 again, to be honest, more rapidly than in software, you
19 know, human adult stem cells were invented 12 months ago.
20 And there's already proliferation of technologies around
21 that. So I disagree with that assumption.

22 That said, I still believe that the difference is
23 that we have a Patent Office both here and in Europe, I

1 would say, that where the examiners are extremely well-
2 educated. They don't let you get away with anything. Most
3 of them are Ph.D. level scientists. They actually do
4 understand what's going on in world.

5 The industry actually makes an extremely strong
6 effort to try to even keep the examining corps well
7 educated. There are seminars routinely in the Patent
8 Office, in life science, where a scientist will go back and,
9 for example, talk about stem cell technology so as to make
10 sure the examining corps doesn't miss something.

11 That said, and mistakes are made occasionally in -
12 - in life science as well as other places. And I am in
13 wholehearted agreement the after-the-fact review by
14 opposition, or whatever, is extremely helpful. And the
15 system works just fine in Europe, in life science. And if
16 something did slip through that was vague, you know, that it
17 would be hopefully dealt with more rigorously in that
18 situation.

19 So again, I think we need to be very careful not
20 to make huge changes. I actually agree with, believe it or
21 not, the concept of a media publication. I think that's a
22 ruse on the part of the Patent Office, frankly.

23 And almost all patents are filed electronically

1 now. I doubt that -- and I think -- and we do need to keep
2 a small place aside for small inventors here. But certainly
3 all patents filed by life science companies, I'm aware of,
4 are filed electronically. So there's no reason it couldn't
5 be published immediately. And in fact in life science, most
6 cases are filed at the same day that something is published.

7 So in any event I'm not opposed to that. I think
8 that would be just fine. And I think we need to be very
9 careful to do -- tweaking things like that, as opposed to
10 massive change.

11 MR. COHEN: John.

12 MR. McNELIS: Real quick. The issue as to whether
13 -- and whether this should be done upfront or after-the-
14 fact, as we've heard, it should be a combination.

15 There should be more interaction with the examiner
16 and the patent attorney with regard to 112 first issue. If
17 you have a claim set out, as Michelle said, we need to make
18 sure the specification is clear and the claims are clear as
19 to -- as to the scope of the protection that is being
20 sought. I actually have seen the Patent Office improve on
21 this issue in the past nine months. Although I think's
22 being looked at more closely with regard to the Bilski and
23 101 issues. We are seeing at least the examiner's taking a

1 closer look at the specification, which wasn't always done
2 in the past.

3 MR. COHEN: Okay. I'm going to move us forward so
4 that we can cover as many issues as possible. What I try to
5 do at the end is to give everybody a chance to make any
6 comments that they really felt they had wanted to. They may
7 have had their sign up before, they didn't get called on.
8 If there's something really important, at the end, you get a
9 chance to get your comments on the record.

10 Let's start moving onto individual issues. And
11 what I think perhaps a place to start would be with various
12 mechanisms that might improve notice from existing claims.

13 And the first one I'd like to take up is
14 indefiniteness, which is something that's been receiving
15 greater prominence in recent months. My overall question is
16 what's the appropriate reach for the indefiniteness factor
17 in patents? Does it have application for all forms of
18 ambiguity that affect breadth? In general, is it -- is it
19 appropriate for addressing issues of overbroad claims.
20 Anybody want to start?

21 Lee.

22 DR. PETHERBRIDGE: So -- so I think that -- that
23 indefiniteness is -- is a tool that probably works better in

1 the hands of the Patent Office than it does afterwards. I
2 think, for some reasons that -- that Dan suggested -- and I
3 think it's maybe his opening comments, which is that, you
4 know, attorneys at Law school and a they learn how to create
5 ambiguity in documents when needed. And I think what can
6 happen is that if you have a -- say a strict indefiniteness
7 requirement that exists after patents issue, you know, you
8 can't change the scope of claims and you're basically stuck.
9 And people will be able to -- to create ambiguity, create
10 situations that appear -- or create the appearance of
11 indefiniteness. And I think that once a patent issues, you
12 have to, of course, be fairly liberal, with respect to -- to
13 tolerating some amount of ambiguity without invalidating
14 patents for indefiniteness.

15 On the other hand, when you're at the Patent
16 Office will can amend the claims. They can make
17 representations in the prosecution history about the meaning
18 or scope of terms and limit things in ways that provide the
19 flexibility that doesn't exist, preissuance. So I think
20 indefiniteness is a valuable tool and one that maybe could
21 be developed more. But my own sense of it is that I
22 wouldn't like to see it applied too much more strictly than
23 it is by courts at this particular time.

1 MR. COHEN: Jason

2 MR. SCHULTZ: Yes. So I just have a brief comment
3 here. I think whenever -- so I would agree, generally, that
4 we can do things both in the Patent Office and in later in
5 the courts and other stages, such as administrative
6 post-grant.

7 But the key for me in the Patent Office, I mean
8 just given everything that we've all heard about what
9 examiners -- the stress they're under and everything is, is
10 can we increase the information and lower the information
11 costs without increasing their transaction costs and the
12 applicant's transaction costs.

13 And I think when it comes to indefiniteness the
14 question of reasonable interpretations, I think, is a high
15 transaction-cost question, right. I mean figuring out
16 what's reasonable, what's not. I mean I think
17 indefiniteness only goes so far. But I do think that the
18 problem there is either inconsistency or lack of
19 definiteness.

20 So I think getting definitions, you know, making
21 sure there are definitions where there need to be
22 definitions and also locking in the applicant or the
23 inventor to those definitions so they can't later change in

1 context.

2 I mean there's some flexibility. I agree, there's
3 some things you're just not going to define as a periodic
4 table. But I think when -- for instance, in a notice of
5 allowance, when it's a key element of a claim that is over
6 the -- you know, distinguishing the prior art. I think
7 getting some definiteness there especially, or in other
8 places, where it really forces the then patentee to be
9 consistent and having some notice there, I think, will be
10 key.

11 MR. COHEN: Peter.

12 DR. MENELL: Well, I'm going to tie this in a
13 little with the theme of the last question, which is the
14 sort of ex ante versus ex post. And I think this is a good
15 illustration of part of the challenge. I'm going to take
16 all of the above, as many have. But in this area I can say
17 from a lot of experience that what you're getting from
18 district judges is basically a novice. I mean in certain
19 districts you're going to get repeat-player judges, but most
20 judges are not going to have nearly the experience.

21 And a doctrine like this I really think requires,
22 you know, some spectrum of experience. And so I think the
23 Patent Office is a place where you want to inculcate the

1 values involved here.

2 Now I think in the biomedical fields this is less
3 of an issue, because the people investing in those
4 technologies want to have as strong a claim coming out of
5 that office as possible, so that they can justify all of the
6 clinical testing and very high expense that they are going
7 to experience. And what we know from yesterday's panels, in
8 the IT industry, they're just trying to build up big
9 portfolios and they're not very focused on this issue.

10 And so I think through some sort of rulemaking
11 procedures it may be possible to have the Patent Office
12 change some of those cultural norms.

13 And so that's, I think, the best place to start in
14 thinking about this question: What is it the Patent Office
15 can do to kind of call attention to this issue and try to
16 create clearer claiming upfront. And, you know, I mean
17 courts may or may not play a significant role if the PTO
18 does that.

19 MR. COHEN: Okay. Kevin.

20 MR. RIVETTE: Okay. So from the point -- from the
21 Patent Office's perspective, what's occurred since the mid-
22 '90s is we've got a situation where we keep getting less and
23 less information on prior art. And the applicants don't

1 have to transverse it, which was the practice prior to that.
2 So it's harder and harder for the office to figure out what
3 is the invention. The applications also tend to get more
4 complex and they are getting longer.

5 Okay. So the -- the issue on definitions. I'll
6 throw something out, which is why don't we put in a
7 definitional page and make it a requirement in the actual
8 patent, so that we lock down some of these things. So
9 they're -- the Markman Hearings more over morphing of terms
10 than just the term; how does it change over time?

11 I think we've got another area which is we
12 actually, at the Advisor Committee, did a long study on some
13 of the issues that are concerning applicants. Most of the
14 applicants found that they got a lot better result, and what
15 we found was that we got a lot better patent at the end of
16 it if we actually had a pre-first office action interview.
17 So the -- so the applicant would sit down, they'd get to
18 your point. Applicant would sit down and talk to the -- the
19 examiner. Because once we get into that process, it's --
20 you know, people take positions. But if they can sit down
21 to figure out what the invention is, that seemed to be going
22 -- going well. We've done a -- a first trial of that. And
23 everybody wants to go further with it.

1 On the -- I think there are a number of issues
2 that we could do the office. We could actually start
3 requiring, number one, that the patents come in
4 electronically. Right now they're coming in electronically,
5 only in PDF, most of the time. I think that the hue and cry
6 out of the AIPLA and other practitioners was pretty loud.
7 But I think we should really think about bringing it in in a
8 textual format. I think we should have small apps inside
9 the office that actually review these for statutory
10 requirements. A 112 checker -- I designed one in 1991 --
11 would be something that would add to one definition side.
12 We could then define what we need to define. Two would also
13 add to consistency throughout the application.

14 So these are sort of things that I think we can --
15 we can actually do at the office that would have significant
16 impact on what the -- the quality coming out.

17 One of the things we did with the -- the last
18 meeting of the Advisory Committee, and we had it open to the
19 public. And we discussed quality measures. I think that
20 the office absolutely should be looking at third-party,
21 independent reviewers of quality.

22 So to the points here of: Why aren't we talking
23 to the judges? Why aren't we having a system where we

1 review every single patent that gets held invalid? I mean,
2 it's a real simple problem. I mean, it's a decision tree.
3 Was it held invalid it because we found something and some
4 library that we're never going to find? Okay, fine, you
5 know, that's not the Patent Office's problem.

6 However, if we find that we are missing
7 misinterpreting the law, or that there weren't statutory
8 requirements met, we should be looking at that. We should
9 find a way to put a connection back into the system to
10 correct it. We don't have that right now. We don't
11 actually review our own Board properly, our opinions. And
12 we don't review other patent offices. So there's got to be
13 a consistency worldwide, not just with our office. And I
14 think there are ways to do that.

15 So you wanted some specificity. There's some
16 specificity.

17 MR. COHEN: I'm going to talk on Michelle. But as
18 I do that, I'm going to try to give a little bit more meat
19 to the indefiniteness issues so that you can all be thinking
20 about it as Michelle is responding. And that's the fact
21 that in court, it's often been viewed as a doctrine that
22 tries to identify whether a claim is insolubly ambiguous.
23 And yet more recently at the PTO and then in their *Miyazaki*

1 opinion, but from the Board they talked in terms of an
2 indefiniteness problem if a claim is amenable to two or more
3 plausible constructions.

4 Where do you think we should be heading? Is it
5 appropriate to have different standards in the PTO and in
6 the courts as they review that? Think about that.

7 Let's get Michelle's response to what was already
8 on the table.

9 MS. LEE: So I just actually have a very brief
10 follow-up on Kevin's point. I was intrigued by his notion
11 of a definitional page because in some sense that would help
12 tremendously. But currently, right, the terms that are used
13 in the claims should have support in the written
14 description.

15 MR. COHEN: Right.

16 MS. LEE: So the question is: If you put it in a
17 separate section of the patent, does it make the examiners
18 and the applicants really define the terms are being used?
19 And if the answer is yes, I'm all for it. But currently,
20 under the system, you should be doing that, right? You
21 should be defining the terms, so --

22 MR. RIVETTE: Well, you -- the problem I've seen
23 in them is they define the terms, but as the application

1 goes through multiple stages, those terms get muddy. They
2 have --

3 MS. LEE: Right.

4 MR. RIVETTE: -- four or five different
5 definitions in there, slightly different, not a 100 percent
6 different. And sometimes they aren't even there properly.

7 MS. LEE: Right. So then could you amend the
8 definitions as you evolve, or would that be changing?

9 MR. RIVETTE: The spec?

10 MS. LEE: Yeah.

11 MR. RIVETTE: I think you've got to do it to begin
12 with. But then you're going to, you know, potentially amend
13 it in the actual file wrapper. I mean, that's how, you
14 know, the interpretation thereof. And that's the intrinsic
15 versus extrinsic. But it gives you a starting point.

16 MS. LEE: Fair enough.

17 MR. COHEN: Anybody else on indefiniteness issues?

18 I don't see any takers. Let's move to claim
19 construction.

20 In the claim construction area, Judge Rich
21 (phonetic) has been quoted as stating that the function of
22 claims is to enable everyone to know, without going to a
23 lawsuit, what infringes the patent and what does not. He

1 added that this may be a more of a theoretical thought than
2 what actually happens in practice.

3 And I guess what I want to ask you is measured by
4 this standard: Are claims today's successful? Anybody want
5 to --

6 MR. BURK: Did you want the laughter to start now
7 or afterwards?

8 (Laughter.)

9 MR. COHEN: Let's start with Lee.

10 DR. PETHERBRIDGE: I'll start with sort of the
11 general -- well, maybe sort of back this up for a second and
12 say whether claims today are successful -- or are successful
13 or not, I think, is a somewhat different question than the
14 question of whether claim construction is in a particular
15 good place. And so I'll start by talking about claim
16 construction, because I think claim construction is a
17 problem and I think that what -- and I think, you know, to
18 the extent there -- we could look to may be that the
19 institution that created this problem, I think it is in
20 large part arguably put at the feet of the Federal Circuit.
21 And the reason for this is the *Philips* opinion, which I
22 think is entirely unhelpful.

23 I think the *Philips* opinion says essentially, or

1 sort of reverses a pattern of evolution or development in
2 Federal Circuit Law that was starting to try to say, "Look,
3 there are actually is a right way to go about claim
4 construction. There's a framework that you can apply to
5 claim construction and sort of reproducibly sort of
6 processize doing claim construction.

7 So this actually, Peter's point earlier, sort of,
8 you know, cause me to think this -- and I don't want to
9 suggest that Peter necessarily thinks it -- but the idea
10 that you might want to develop taxonomy and in other sorts
11 of tools for assessing the scope of patents in certain areas
12 where maybe taxonomy is not as well developed, it strikes me
13 it's a similar problem to what you have with respect to
14 claim construction. Because if you have a claim
15 construction regime like we have now, that I think is
16 promoted by the *Philips* opinion, which is you can do claim
17 construction however you want, in any particular case, and
18 all that really matters that you thought hard about it, and
19 the Federal Circuit agrees with you at the end of the day.
20 That's not helpful, I think, to developing the law and
21 evolving the law in a way that sort of allows for claims and
22 the doctrines of claim construction to be more effective at
23 producing clearer and more reproducible claims, going

1 forward.

2 Now, to suggest -- I don't mean to suggest ever
3 that you can perfect clarity or there'll never be an
4 ambiguity in claims. But I think the process of doing claim
5 construction can be improved. And I think *Philips* is a step
6 in the wrong direction and, in fact, cements the kinds of
7 problems that lead to the indeterminacy that you get in sort
8 of the average patent case, where you have equally plausible
9 interpretations on both sides, by the individual parties,
10 that aren't resolved by the law and actually just have to
11 sort of be picked at the end of the day by -- by a decision-
12 maker, who is -- who is right because of their final, for
13 that reason.

14 MR. COHEN: Let me push you a little farther on
15 that, with your views on Philip. Is it a problem with the
16 uncertainty as to how we use intrinsic evidence? Is it a
17 problem with -- with of -- uncertainty as to how we use
18 extrinsic evidence? What -- what are you getting at?

19 DR. PETHERBRIDGE: Well, I think -- sure. So I
20 can build on it a couple of ways. I mean, I think in some
21 respects *Philips* presents a problem because it discourages
22 the use of extrinsic evidence in a way that might unhelpful,
23 because it might be in those kinds of situations, situations

1 where you sort of have a lot of ambiguity or maybe you'll
2 resort to extrinsic evidence might be more helpful.

3 But more than that, right, I think the real
4 problem with *Philips* is that *Philips* doesn't say how to use
5 intrinsic evidence, or how to use extrinsic evidence.
6 *Philips* just says, "Look at the patent, think hard about it
7 and think carefully and reached the right decision." Right,
8 and I think one of the things that the Federal Circuit was
9 doing before *Philips*, whether it had gotten to the right
10 place or not, I -- I -- you know, is I think a matter of
11 debate. But it was at least moving to a place where they
12 were developing a framework for how to go about doing claim
13 construction, how to give weight to different portions of
14 the specifications or so people could reproducibly and
15 reliably put information into specifications if -- if they
16 wanted to and courts could have a sense of how to -- how the
17 -- how they -- how their claim constructions were going to
18 be reviewed and whether or not they were doing it in a way
19 that was likely to be reproducible -- or I -- I'm sorry --
20 likely to be viewed favorably by the appellate court, at
21 least in terms the process by which the claim construction
22 was done. So to sort of sum it again: the problem with
23 *Philips* is that it doesn't say how to use intrinsic

1 evidence. It doesn't tell you how to use the extrinsic
2 evidence. It just basically disrupted a pattern in
3 evolution of the law that was starting to try to give
4 information about how to use these different forms of
5 evidence.

6 MR. COHEN: Let's see how others react. Vern?

7 MR. NORVIEL: So -- so I didn't think we should
8 try to learn from what's working and try to fix the other
9 areas from that. I find it actually kind of funny that some
10 of the biggest complainers about these problems, to be
11 honest, companies like IBM or Microsoft, you look at their
12 patents and there are tens of thousands of them, and they
13 have no definition sections in most or any of them.

14 But again if we look at a biotech patent, it's not
15 required by the rules, but it's almost routine if there is a
16 definition section. So I think we can learn from that a
17 little bit. I do think that -- I would point out I think
18 that there actually are courts in a sense that are even more
19 rigorous and more careful, which I refer to as the "court of
20 Sand Hill Road," which is when you're about to ask one of
21 these VCs to cough up tens of millions of dollars, they look
22 at this extremely carefully. And if there are two possible
23 interpretations, you probably aren't going to get your

1 money.

2 But we have again a system where the examiners are
3 not letting you get away with two possible interpretations.
4 And even when there is two possible interpretations, you can
5 look at the file history, usually -- and the examiner has
6 usually had a back and forth about that. So you can kind of
7 figure out where things are, even if you just look at the
8 claim and are not able to.

9 I do think that it is important that it be all
10 within the file history, because if you start to look at
11 external records, even in biotech, there you can probably
12 find five different people to say five different things, if
13 you look hard enough outside of the file wrapper. So I
14 think it's -- I think it's very important for it to be all
15 right there. And that's the examiners fought with you and
16 you've made it very, very clear what you intend, and
17 probably right from the get-go.

18 MR. COHEN: Peter.

19 DR. MENELL: Well, I'm going to, I think, offer a
20 different perspective than Lee on the Phillips decision,
21 although I'm not going to praise -- I think the decision
22 clarified some issues. And I don't think that it's caused
23 dramatic new problems. But I don't think it's improved the

1 predictability claim construction.

2 But I think, partly, it's not by emphasizing
3 intrinsic evidence. I think that actually was a good part
4 of the decision and that we want people filing applications
5 to really put as much effort as they can into writing a spec
6 that will provide the answer down the road.

7 The difficulty I think is that there are a lot of
8 games that different industries play. And this is another
9 area where Dan's idea of inter-industry differences really
10 plays out. I think that -- that in certain industries,
11 biomedical, I think they do want the clarity that Vern was
12 talking about. And they really put that effort in up front.
13 And the emphasis on intrinsic evidence is consistent with
14 that being a way of creating more clarity, better notice.

15 The IT industry doesn't do it that way. But then
16 in *Philips* you have this unbelievable passage. There's a
17 paragraph that begins with -- I think it's the phrase, "In
18 most cases." And the Federal Circuit goes on in that
19 paragraph to say, "That in most cases it will be clear from
20 the context that the patentee, you know, is either using
21 these as specification embodiments as illustrative or as
22 limitative. And the one thing that we know -- and I'm
23 surprised the Federal Circuit would write it, in that that's

1 not true in IT, and maybe some other contexts. But when
2 you're writing the claims -- or when you're writing the spec
3 you want to have it both ways. You want to play this game.

4 The other peculiarity -- and just we take as a lot
5 more time than we have, to really get into all of the
6 nuances of claim construction, but if you don't put in many
7 embodiments you might get broader scope than if you put in a
8 lot. Now that is exactly the opposite of the way we do
9 things in science and engineering. When you write an
10 article, it is usually, you know, considered a better
11 article when you have more examples. But in the claim
12 construction area, by trying to keep it as simple as
13 possible, then you can later argue to a court saying, well,
14 you know, we don't really limit this very much so we get
15 very broad scope.

16 So I think it does come down to the values in the
17 Patent Office and, you know, are the examiners going to say,
18 you know: I don't really think you've defined very well
19 what you've invented here. And, you know, until you satisfy
20 some standard, which would be hard to make it a clear
21 standard. But at least some level of comprehension: We
22 can't issue this patent.

23 MR. COHEN: Let's get Kevin up here.

1 MR. RIVETTE: Well, you started this off with
2 Judge Rich's idea of "Let's make this so people can
3 understand it." These are business documents, these are not
4 legal documents. And, yes, I think it's a great idea to
5 have the legal discussion. But I think we should also focus
6 on structural issues. You know, the one-sentence rule?
7 Well, that's an interesting concept. You know, we've all
8 become the experts around semicolons and colons and dashes
9 and M dashes. And if you don't have a secret decoder ring
10 and, you know, the handshake, you don't get to do this.

11 So to Judge Rich's point I think we've got to look
12 at this from a different perspective. Have you ever gone to
13 court or have you ever had an analysis done that didn't tear
14 apart the claim and build it in a way that was actually
15 interpretable by real human beings? And I am going to
16 suggest I've ever seen it that way. So burn, or anybody
17 else here, when you guys tear apart your claims and you're
18 going to go to your client, you don't leave it as a one-
19 paragraph, three-page -- or, you know, a one-sentence,
20 three-page discussion for them. You tear it apart and you
21 say, you know, this is what it is here, and this what it is
22 here, and this is what it is here.

23 I think we should take a long hard look at

1 redefining how claims are actually structured. I think that
2 would go a long way to solving some of these problems,
3 because when I go back -- and everybody can disagree with me
4 if they want. But the issue around a sentence, the one-
5 sentence rule was more about trying to limit the size of
6 these things. Well, it didn't work. And all it did was
7 confuse people. Maybe it's time to reevaluate whether or
8 not the structure is the right one.

9 MR. COHEN: Let's see, we can take this a couple
10 of directions. I think the way to go right now would be --
11 I just would want to recall what we heard from one
12 participant at one of our hearings in Washington. And she
13 argued that in light of the inherent ambiguity in claim
14 construction, it's more important to have a clear
15 determination early on as to the claim's meaning and
16 deference to that initial determination than to try to hone
17 the rules of claim construction.

18 Another participant responded that it was critical
19 to get claim construction right. And that even in a *Markman*
20 hearing that might still be too early to appreciate the
21 context in a way that's necessary to construe claims
22 correctly.

23 Which view of the world would you take? Which

1 would you advocate that we strive for -- for early
2 interpretations or strive for the absolute correct one,
3 irrespective of the timeframe?

4 Daralyn.

5 MS. DURIE: It depends to some extent on what is
6 at stake in the case. In general, I am a fan of early. But
7 that is because I represent a lot of relatively small start-
8 up companies, where the cost of litigation is simply
9 prohibitive. You can't litigate -- it is extremely hard to
10 litigate a patent case for less than \$2 million. Most
11 people will tell you that the norms are more like 4,- or 5,-
12 . There are a lot of companies for whom that is simply not
13 an amount of money that they have to spend, particularly
14 when you couple it with the business impacts of the overhang
15 of the litigation on the ability to raise more money and on
16 interference with customer relations.

17 I think in those kinds of cases it is critical
18 that there be a mechanism, early in the case, before you
19 spend enormous amounts of money on discovery, to get some
20 determination on the merits of the case. And that this sort
21 of ultimate perfectness of that determination is less
22 important than that there be one. And that there be one in
23 a timeframe and with an expenditure of money, that is

1 actually creates a viable mechanism for the resolution of
2 disputes.

3 I agree with Peter's point, bad patents can be
4 harder to defend against than good ones, because they are
5 more imprecise, and they are more susceptible to many
6 different interpretations.

7 So it's not -- you can be confronted as a small
8 company with a bad patent that has relatively little
9 intrinsic value. And the combination of the litigation cost
10 and the other business risks can really create an
11 unmanageable situation. So in most cases I think early.

12 MR. COHEN: Um-hum. Jason?

13 MR. SCHULTZ: Yeah, and I -- I'll agree with
14 early. Again, in terms of I think very strategically and
15 surgically you can find certain places where I think you can
16 have helpful or early determination. So for instance, and
17 looking at the intrinsic evidence, to focus again on sort of
18 more transparency and more consistency, because I do think
19 that people change their story when they get into
20 litigation, often. I -- I think that things like interviews
21 are an interesting place to look, right. So, I mean, how
22 much information do you ever learn about what happened in an
23 interview, in the -- you know, between the examiner and an

1 applicant? Very little.

2 And so, for instance, I mean, considering whether
3 they should be recorded and part of the file history, or
4 not. And, you know, should the file history be published?
5 If an application is published should everything in the file
6 history be published, you know, as it's done, if it's all
7 electronic?

8 These are things actually that I think you could
9 argue, well, maybe that will have a little bit of a
10 chilling effect under the discussion that applicant would
11 have with the examiner. But on the other hand, I think the
12 public notice part of the record, part of it is very
13 important, because in some ways it will get the applicant to
14 commit to some language in some definition that I think will
15 help as part of intrinsic evidence in claim construction
16 later. I think that you will even get some commitment there
17 and some transparency there.

18 The other thing I was going to say is that I think
19 in claim construction there are -- there are different
20 levels of determination that get made better. Some are sort
21 of easier to deal with early on and some are not. So for
22 instance, there's some basic arguments that you see over and
23 over again, is the preamble limitation. Right. Is this a

1 Section 112, paragraph 6, claim or not?

2 Those are some things I think that also could be
3 defined in the prosecution. I mean, similar to definitions
4 of terms, I think you could have a checklist and say, "You
5 know, like can we get some, at least, initial consistency on
6 this?" And if the applicant commits to it, then that makes
7 at least the cost of litigating that in the claim
8 construction, lower. I mean, I just couldn't tell you from
9 private practice before I came to the clinic, that there
10 were cases where, you know, hundreds of thousands of dollars
11 were spent on whether the preamble was a limitation or not.
12 So there is some categorical areas where I think in
13 prosecution you can also get some definition.

14 MR. COHEN: We're coming up on the time we
15 normally take a break. What I'd like to do is to try to
16 finish up our discussion of claim construction and then
17 break for a few minutes.

18 When I started out talking about the hearing in
19 Washington, I threw in as a preamble that the participants
20 had argued about -- premised for argument on the inherent
21 ambiguity in claim construction. I'm wondering if anyone
22 wants to pick up on that, if anyone has views on that, and
23 if they have views, what the implications might be.

1 Dan.

2 MR. BURK: Well, I think that's a great question
3 and I want to answer it, playing off of Kevin's comment a
4 minute ago, "These are not legal documents, their business
5 documents." Actually they are very odd documents, right.
6 Because they are clearly legal documents. We're talking
7 about claims which are supposed to define the rights of the
8 patent holder. They are business documents to the extent
9 that businesses rely on them to try and figure out what they
10 can and cannot do, as Michelle has talked about, and Daralyn
11 was talking about. And they are supposedly technical
12 documents, right.

13 We talked about the public notice function, but we
14 know it's the fact that it's addressed to those of skill in
15 the art, right. And so it's not addressed to the public,
16 generally. Supposed to be addressed to those who know the
17 technology. But the reality is, as we've heard here today,
18 is that they are legal documents, as a practical matter,
19 because of what lawyers fight over and play word games with.
20 And if you don't want them to be legal documents, you know,
21 that lawyers play word games with, if you want them to be
22 business or technical documents, then what I'm hearing is we
23 need to focus on what the inventor actually invented.

1 This goes to Daralyn's comment about let's focus
2 on the written description, and let's have a definitional
3 section, and let's think about what the inventor actually
4 created. In fact, it goes to Peter's comment about maybe a
5 peripheral claiming is not such a great idea.

6 Maybe we need to focus more on Jepson, or what we
7 used to call central-type claiming: Tell us what you
8 invented. That would give us some early idea of what the
9 patent means, is what you actually invented. And, yes,
10 there will be some quibbling later on, and some fighting
11 when infringement happens. But if you can shift the focus
12 to what was invented rather than to what lawyers would like
13 to make the words mean, then they could be technical
14 documents, then they could be business documents rather than
15 legal documents.

16 But as long as we think of them in terms of legal
17 documents of what lawyers are going to play word games with,
18 the ambiguity that we've talked about all through this
19 session so far this morning is going to be there.

20 MR. COHEN: John.

21 MR. McNELIS: Just an issue with regard to the
22 claim construction but the interaction with the applicant.
23 One area we do have, we talked about a post-grant opposition

1 period. Essentially we have something very similar in our
2 interparties re examination process, although there are
3 problems with estoppel.

4 The ability to go and at a much lower cost, go and
5 have both parties in a litigation go and work with an
6 examiner and then try to get a better definition of what the
7 claims are and what additional art is out there is a nice
8 procedure that is often used these days to go and try to get
9 better clarity on the claims without having to deal with the
10 huge cost of litigation, as Daralyn had mentioned.

11 MR. COHEN: Lee.

12 DR. PETHERBRIDGE: Yes. I'll just sort of finish
13 up, I guess, by maybe dividing from Dan a little bit on the
14 merits of central claiming.

15 My feeling is that claims are going to be
16 inherently ambiguous. I mean, so there is always going to
17 be some amount of ambiguity. I think that it can be
18 improved by things that hopefully we'll talk about after the
19 break. But I think that central claiming is not necessarily
20 very helpful in providing ex ante kinds of notice, the kinds
21 of notice that we might think is necessary to sort of
22 concentrate investment around patents and the like that.
23 And then I also think that -- that I can't remember the

1 other thing that I think.

2 (Laughter.)

3 DR. PETHERBRIDGE: So I'm going to stop, but I'll
4 remember it after the break.

5 MR. COHEN: Okay. Well, we'll try one more set of
6 questions before the break -- or one more. And this is
7 probably something that Daralyn might have some reactions
8 to.

9 Sometimes in courts you hear them resolving claim
10 disputes by speaking in terms of giving a claim the
11 narrowest reasonable reading. To what extent is that really
12 the current practice? And do you have any thoughts as to
13 whether a more uniform and wide-spread resort to that type
14 of thing might improve notice?

15 MS. DURIE: I do not think that is the current
16 practice. And in fact I think that sort of supposedly
17 doctrine that probably is at the very bottom of the list of
18 claim construction doctrines, in terms of its enforcement,
19 is the idea that claims should be construed to preserve
20 their validity.

21 I've certainly talked to judges in the Northern
22 District of California who said they don't follow that all.
23 That they simply view their job as coming up with the best

1 construction of the claim language, leaving validity
2 considerations entirely to another day, and leaving 112
3 considerations entirely to another day, as well.

4 And so I, as you probably gathered, do think that
5 importing into the claim construction analysis, some sense
6 of trying to have there be a meaningful fit between the
7 claim's scope and what actually was described as being the
8 invention, would go a long way towards reconciling what I do
9 think is otherwise just an inherent ambiguity in the English
10 language. And if anyone doesn't believe me on this point, I
11 propose a little experiment, which is, you know, take two
12 people -- you need three people to do this. But have -- you
13 know, have an object -- have somebody describe it, without
14 showing what it is. And have two people illustrate what it
15 is that they think is being described. And then show the
16 object in question. I would predict that very few of you --
17 but you accurately could reproduce this, if the words to be
18 used didn't include water bottle, simply because of the
19 imprecision that's inherent in language.

20 MR. COHEN: Yeah, let's go to Dan and then lead
21 with -- to wrap up.

22 MR. BURK: Well, I agree with Daralyn, if it
23 hasn't been clear already that you can, you know, never get

1 rid of the imprecision. But what you can do is create
2 doctrines and structures that ameliorate it.

3 So we've heard repeatedly this morning that we're
4 concerned about patentees who are playing games with the
5 Patent Office, who would like to leave things as open as
6 possible, and see what happens later. Lawyers and patentees
7 who play games in court.

8 This is not unique to patent law, right. We can -
9 - we construe contracts all the time. We construe statutes
10 all the time. And we have rules that create incentives to
11 do certain things in those situations. For example, there's
12 an old rule that construe contracts against the drafter,
13 when their's ambiguity. Now we might not want to think
14 about whether your question leads us to some defaults,
15 right, some doctrines that create incentives not to play
16 games in the Patent Office, or not to leave things, as Peter
17 pointed out, as ambiguous as possible, to see what advantage
18 you can get later.

19 And what happens if we construe the patent against
20 the patentee, if we think that there's been deliberate use
21 of ambiguity to claim things that weren't actually invented.
22 So we might want to think about, you know, how to structure
23 those kinds of doctrines to create the right incentives,

1 rather than perverse incentives, which I think we're
2 discussing.

3 MR. COHEN: Now let's end up with Lee.

4 DR. PETHERBRIDGE: Yes. So I -- I agree with
5 that. And I think that, you know -- I think the rules that
6 that call for sort of the liberal construction of patents
7 are old rules that probably came into existence and actually
8 thrived in the time of central claiming, which we don't
9 really have any more, at least in many forms. And I think
10 that the advent of peripheral claiming suggest that those
11 rules maybe ought to be abandoned in favor of a stricter
12 interpretation of claims and that patents ought to be
13 subject to rules, like contra preferendum and rules that are
14 used to construe contracts against their drafters.

15 And I'll -- this sort of add to the final point,
16 which is the notion that we want to give inventors rights in
17 the things that they invent is very appealing. And this
18 goes back to sort of the central claiming point that is sort
19 of surrounding this. But I think the concern is that it
20 elides the question of still figuring out what the thing is
21 that the inventor invented.

22 And, you know, the way we figure it out in the
23 patent system is we look at words on paper that were put

1 there by attorneys, or patent agents, or inventors. And
2 whether those words are claims, whether those words are
3 words written in the description portion of the patent
4 document, they are still words put there. And strategies
5 exist and sentence exists to put words in there. And if we
6 -- you know, if we get rid of claims, or we go back to
7 central claiming, well then, I think you might expect more
8 ambiguity in the description portion of the document than
9 you're getting now. At least now you can put in specific
10 examples and draft claims that claim things in sort of a
11 genus type form.

12 But if we get rid of claims, well then we're sort
13 of back to having to look at some other portion of the
14 patent documents, some other word but there by attorneys, or
15 by agents, or in some cases by inventors -- excuse me -- to
16 figure out what the invention is, again to give the inventor
17 rights in the thing that they invented.

18 MR. COHEN: Thank you. Let's break for 10
19 minutes.

20 (Recess taken from 10:36 a.m. to 10:50 a.m.)

21 MR. COHEN: Okay. With the time remaining, we've
22 got a little more than an hour, I'd like to try to cover
23 three large blocks of topics. One would be picking up where

1 we left off. I'd like to move into the examination process
2 and try to think about ways that notice might be improved
3 through tinkering with aspects of that process.

4 A second large block of issues that we would like
5 to touch on would be the availability of notice from
6 application, what we can learn there, what we understand
7 will emerge from the application when it's all finished.
8 And then, finally, the whole set of issues that revolve
9 around numerosity of patents and problems posed by
10 inadvertent infringement.

11 So let's turn to examination. I guess the general
12 question is: Are there ways to meaningfully improve notice
13 through the examination process. Particularly I'd like to
14 focus on the possibility of additional communications
15 between examiners and applicants that might establish a
16 better record that would help to narrow or remove the
17 ambiguity.

18 Daralyn.

19 MS. DURIE: Yes. I think that's absolutely a good
20 idea. I think in order for it to be effective it needs to
21 be coupled with some clarity on the back end of about how
22 statements in the prosecution history get used in claim
23 construction. And I've always had the view that statements

1 in the prosecution history are really relevant to claim
2 construction in two ways. One is an interpretive guide to
3 what the words in the claims mean. And the other is of the
4 source of the disclaimer. But I think many courts really
5 focused on the Federal Circuit language, talking about
6 disclaimer and think that statements in the prosecution
7 history are relevant to claim construction only if they do
8 meet that standard of being a clear disclaimer of claim
9 scope, rather than being used like this specification as a
10 way to understand what it was that the applicant and the
11 examiner understood the claim scope to be.

12 MR. COHEN: Good. I see Lee's sign has -- he's
13 written in a theory. You'll probably want to talk to that.

14 MR. LEE: Yeah, sure. So I'm at -- I think there
15 are things that can be done. And this goes back to our
16 question from before the break about, you know, places in
17 which you could make some adjustments and get some
18 improvements. And then, really, the thrust of the piece
19 that you cite on the -- sort of the fifth page of the
20 questions there, positive examination, sort of addresses
21 this particular point. And -- and really the sort of a --
22 there is two sort of arguments made in the paper, one of
23 which is -- and I will sort of overstate this to just to

1 give it some affect. One of which -- one is to say patent
2 examination in some respects are to stop worrying about
3 obviousness, ought to stop worrying about validity, because,
4 at the end of the day as we now know, that's essentially
5 just a judgment call. All right? And what patent
6 examination on to do is refocused more on trying to assess
7 and put information into the record. Not so much assess,
8 but as to put information into the record that's useful and
9 relevant to define the scope of the claims.

10 And the way the article talked about doing this is
11 it suggests having in the prosecution history a claim chart
12 where applicants, you know, I mean, it can be filled out in
13 many different ways.

14 One way is to have the examiner do it, come in,
15 and interpret the claims, put it into a claim chart and make
16 sites or references on that claim chart to art or portions
17 of the written description that might shed some light on
18 what certain claim terms mean.

19 The other way to go about it is -- is to allow the
20 applicant to do, and then allow the examiner in to just sort
21 of work off of that. But what it does, I think, is
22 ultimately focuses the discussion on that the applicant and
23 the examiner have during a patent examination, more

1 specifically on the boundaries of the right that the
2 patentee seeks.

3 And I think you can do this, first of all, I think
4 the paper certainly make the argument that you do this in a
5 way that's relatively cost-effective. And you can certainly
6 do it by taking some, I think, of the energy away from
7 trying to make judgments about obviousness, which reasonably
8 people can sort of ultimately disagree on at the end of the
9 day.

10 And so I think the way this claim chart could sort
11 of work, in the prosecution history, is it could really be
12 sort of a living, breathing document that sort of helps show
13 the evolution of the understanding of claim language
14 throughout the course of prosecution.

15 And then sort of build on the point Daralyn made,
16 I think that there ought -- there have to be rules about how
17 to use this information in the future. But I think they
18 have to sort of come in the future, which is to say this
19 allows a whole other substrate, right, upon which claim
20 construction law can develop and evolve that doesn't exist
21 at this particular point. It particularly doesn't exist
22 after the *Philips* opinion where there really are no rules,
23 right

1 This is a whole new source of information that
2 could exist and could be used to develop claim-construction
3 law into all different kinds of new directions. And so I
4 think that's really the strength of that kind of an
5 approach.

6 MR. COHEN: John.

7 MR. McNELIS: One aspect of this is the natural
8 tension as a patent practitioner of trying to have a clear,
9 concise patent, but also trying to have the broadest scope
10 possible for our -- for the clients, for the patentee.

11 And so there are a few things that we can do that
12 would help that. And Kevin's idea and the actual
13 implementation of the pre-first action interview is a
14 wonderful idea. Getting the interview -- getting the
15 examiner and the patent attorney in a room or on the phone
16 to talk about what the invention is absolutely speeds the
17 process forward.

18 And so, essentially, you're eliminating one office
19 action by going through that process because you both get on
20 the same page and you start talking about what needs to be
21 done and what the issues are.

22 The claim chart, that sounds like it would be very
23 helpful, but when I think about that from the aspect of

1 trying to preserve my client's rights, I can see that that
2 would require a lot of effort on the part of the examiners
3 to enforce that so it doesn't just become a sham and
4 essentially become, 'I'm going to take a definition and a
5 term that I've had in the specification and I'm just going
6 to copy and paste it into the claim chart.'

7 And I would be concerned that that would be the
8 natural tendency for that to occur in that way, unless the
9 examiner was given more time to examine applications which,
10 of course, would then cost more money for applicants to file
11 their applications.

12 So I think those are some of the tensions that we
13 see.

14 MR. COHEN: What would happen if it were the
15 examiner who first drew up the claim chart on key issues,
16 trying to use language that he finds helpful, and then it
17 became the applicant's obligation to point out if the
18 applicant disagreed with anything that the examiner put in
19 there? Would that be a more useful way? I could understand
20 it would be more costly, but would it be more useful?

21 MR. McNELIS: It would be more costly. And I'm
22 pretty sure every applicant would make major changes to the
23 claim chart. But it would at least -- it would create more

1 of record in terms of what the examiner was thinking. So
2 there is -- there is some good -- there is some benefits to
3 doing that. But, at the end of the day, I would basically
4 start at a blank sheet and start over and put in the terms
5 that I'd want to see there.

6 MR. COHEN: Um-hum. Jason.

7 MR. SCHULTZ: Just a few quick points. I think
8 that the record and examination can serve for a later
9 litigation. But, also going back to kind of freedom to
10 operate and clearance, especially for some of the innovators
11 that I've represented and particularly in the open-source
12 software movement, people who don't generally patent and
13 don't really -- can't really afford to litigate, they will
14 look and they will go and they will themselves pull the file
15 history. Right, and, you know, they'll just be coders who
16 are interested and curious in looking through things. And
17 they want to learn kind of what happened, and it's
18 mystifying in some ways to them.

19 And so I think bringing more clarity to the
20 dialogue that happens and so I think a pre-office action
21 interview, if it's something that they can get ahold of,
22 even themselves before they have to come to a lawyer, could
23 be incredibly effective in helping them.

1 So I think making, again sort of a more
2 transparent interaction and one that might even have lower
3 transaction costs, right, so to transcribe interviews is
4 heavy, but to record one and post it as a file, as a sound
5 recording, may not actually be that bad.

6 The other thing is that, I mean, coming up with a
7 claim instruction could be burdensome. But, at a minimum,
8 and you see this in claim-construction charts, citing to
9 where the -- to the points in the specification that should
10 be used to define the term, right. Just I'm talking numbers
11 here, right, this column, this line number, this figure.

12 Again, from a transaction-cost point of view, that
13 could be pretty simplistic. And, again, people play some
14 games, but I think you could at least get them some basic
15 data there that when people see it, they have some sense of
16 -- of how much gamesmanship is going on.

17 The last thing I'll say too is that in terms of
18 this dialogue, I think the way in which the patent
19 examination process has been set up traditionally is that
20 the only interactions are really adversarial interactions.
21 And going to a more interview-type system allows you to get
22 away a little bit from that. It's like if the only thing
23 you ever hear from the Patent Office is, 'We're rejecting

1 you for all these reasons,' it does create, you know, this
2 kind of adversarial sense.

3 So, for instance, I could see possibilities for
4 examiners to just have questions in written form that they
5 could issue to the applicant, saying, 'I have a question
6 about these things.' Or some other way to elicit
7 information that again, you know, if there's a simple
8 answer, it comes out. Is there's a more complicated answer,
9 they can then dial about it.

10 MR. COHEN: Michelle.

11 MS. LEE: I think anything in terms of a
12 conversation between the applicant and the examiner that
13 gets to the issue of what is old and what is new and the
14 reason for allowance is critical.

15 And then once you've had that conversation,
16 getting that on the record is even more critical, because
17 that at the end of the day is going to determine the scope
18 of the claims, notice, and all of that.

19 So when we talk about things like -- I mean, as
20 Jason mentions, my number one issue is we should have a
21 system that is more likely the European system, whereas you
22 have language in the claims point explicitly where in the
23 spec there was support.

1 And then on the issue of interview with examiners,
2 absolutely, get better records of it. Right now I can't
3 tell you how many file histories I look at I know an
4 interview occurred. I know what final outcome came out.
5 But I have no reason why that was the final outcome. So
6 clearly more record on examiner interviews.

7 And then on the issue of claim charting, I mean
8 that has been used, and I've seen it. It's a requirement in
9 the area of accelerated examination. And in the couple of
10 cases I've looked at, those have been pretty useful. Now it
11 may be subject to gamesmanship. But I do like the notion of
12 the examiner actually preparing the first shot at it and
13 then putting it on the applicant-defendant to say why that
14 is correct or incorrect.

15 So taking all these steps -- and I would add one
16 more. And that is Jepson-type claiming. Put the old stuff
17 in the preamble, put the new stuff in the claims. And the
18 MPEP, I guess, currently encourages the applicants to use
19 it, but I don't think it's used that often. So the notion
20 of let's think about really distinguishing what is new, what
21 is old, and presenting it clearly in the file history and in
22 the claims themselves.

23 MR. COHEN: Let's go to Peter.

1 DR. MENELL: This came to me in the last few
2 minutes, so it may not be well thought out. But --

3 (Laughter.)

4 DR. MENELL: But as long as we're going to have
5 these interviews, and given what the Federal Circuit has
6 said in the most authoritative claim-construction decision,
7 that in most cases it will be clear whether the spec --
8 whether the embodiments in the spec are illustrative or
9 limitative, we should ask that question in the interview.

10 I mean I think that anything that the examiner can
11 do, or the process can do to nail that issue down, given
12 that that tends to be the critical issue when you get to
13 claim construction, would be beneficial. And I think we
14 have in some ways the imprimatur of the Federal Circuit.

15 MR. COHEN: So we've heard a little bit about
16 claim charts. We've heard a little bit about to designate -
17 - or explaining whether examples are illustrative or not;
18 other possibilities that would seem might be requiring
19 written statements as to the purpose of claim amendments.

20 We've heard a little bit about the idea of
21 requiring a page of definitions. A variant of this might be
22 requiring the identification of a dictionary or designating
23 a dictionary as a default dictionary in the absence of a

1 designation by the applicant. There are lots of
2 possibilities.

3 Would people like to comment on any of them, in
4 particular, as to whether we're likely to get something
5 useful from it? For example, would receive the same type of
6 gamesmanship that you were concerned about if applicants
7 were asked to provide the purpose of their claim amendments?
8 Would they give a useful response?

9 John.

10 MR. McNELIS: Generally, I think they would if the
11 examiner pressed them on it, if the rejection was clear in
12 terms of the prior art cited and the attorney needed to make
13 a clear adjustment, if the examiner forced the issue in
14 terms of asking why every specific amendment was -- why
15 every specific amendment to the claim was in fact put in, I
16 think it could be the -- the patent practitioners could be
17 forced to actually provide useful information.

18 MR. COHEN: Um-hum. Kevin.

19 MR. RIVETTE: Yeah, on the gamesmanship I think
20 you're always going to have it. I mean you have it in
21 contract law, you have it all -- all over the place.

22 The issue of trying to nail down the definitions,
23 I think just tends to limit that. I think that if you can

1 get a set of definitions that the examiner and the applicant
2 actually agree on, from there you can then discuss
3 gamesmanship later in court, if that's what's necessary.

4 But it actually makes it easier if we -- you know,
5 as I've seen it, if you present this in a business context
6 to the people that have to make the business decisions. If
7 they've got a set of definition that they can go back to,
8 they can make better business decisions instead of having,
9 you know, four or five different places it shows up with
10 slightly different nuanced interpretations.

11 So I think you're -- you know, I think that
12 anything we can do to get more lockdown on what those
13 definitions are will be better.

14 MR. COHEN: Um-hum. Vern.

15 MR. SCHULTZ: So dating back to when I was on the
16 PPAC actually and through, I think, even the conversations
17 today, I think there is one -- stepping backward step, there
18 is one issue that I think we really need to wrestle with
19 which is I believe that our system is probably such that
20 it's much too cheap and the Patent Office is simply not paid
21 enough to do a good job.

22 MR. RIVETTE: Yup.

23 MR. SCHULTZ: I think this goes to --

1 MR. RIVETTE: Hear, hear.

2 MR. SCHULTZ: -- the concept of hiring really top-
3 quality examiners that have great scientific backgrounds in
4 the field that they're asked to be dealing in. I think that
5 it would allow the examiner to do things like make darn sure
6 the terms were defined every single time and not let them
7 slip through.

8 And so I think the -- and, again, I think stepping
9 back again to my concept that we need to be careful not to
10 do something that is completely untested, the European
11 system works pretty darn well. And it's, frankly, way more
12 expensive. I also think that it would then sort of
13 statistically reduce the amount of chaff, I guess I would
14 call it. I think Michelle worries a lot about these patents
15 that are filed that probably shouldn't have been and really
16 are not wheat but chaff. I think that if we had a system
17 where the cost of getting a patent, from a government and
18 administrative point of view, bore some relationship to what
19 it cost to actually deal with it effectively, I think we'd
20 end up with a much better system. And I think it's been
21 proven out to work reasonably well in Europe, where it works
22 much better we would all agree, I think.

23 MR. COHEN: I think I'll try Jason and then Lee.

1 MR. SCHULTZ: I just have a very quick point. I
2 wanted to throw into the pile of things we're looking at the
3 notice of allowability, which is usually the final statement
4 that the examiner sort of makes about why the prior art was
5 overcome or whatnot.

6 And, to go to Michelle's point about, you know,
7 you'll see that an interview happened and then you'll see
8 that the claims were allowed. And then it's like you don't
9 understand what went on there in that situation. And -- and
10 I think that any -- and part of it, I think, is that there
11 are almost no standards really for the notice of
12 allowability. You're supposed to make a statement. The
13 statement is often just a sort of proforma, like it overcame
14 the prior art. Or often you'll get one element that they'll
15 single out and said this was not in the prior art, with a
16 very little explanation.

17 So I find that also that, in particular, that
18 stage, and I think what you see there is that there's this
19 talk about, well, you basically wear down the examiner until
20 the examiner gives up. And that's often what I feel. I
21 just intuitively feel that's where the examiner gave up.
22 And so some focus there I think would be useful.

23 MR. COHEN: Lee.

1 DR. PETHERBRIDGE: Yes, sir. I just want to sort
2 of follow some of these -- these points about cost and
3 allowability and things like that as they pertain to
4 positive examination, as they pertain to having, say, claim
5 charts in the file history.

6 I mean I think, you know, we've talked a lot about
7 sort of getting information for these claim charts from --
8 from places in the -- in the patent document, in the written
9 description where this information is cited. And that's
10 certainly a place it can come from, right. But certainly
11 there's a cost to doing this, right. And I think if you --
12 if you sort of go to an electronic filing system, this can
13 be done more quickly.

14 And this information doesn't have to just come
15 from, say, citations in the patent document. It can come
16 from scientific literature, you can cite scientific articles
17 that defined or described terms, or show relevant
18 experiments that demonstrate the principles you're trying to
19 describe with your claims. You can cite to patents in the
20 field. If the examiner happens -- maybe one of the things
21 examiners are familiar with are similarly-situated patents.
22 And they might have an understanding that -- they may know
23 patents they could go to sort of get information to help

1 them describe these terms. And they could cut and paste and
2 put these things into these claim charts in ways that if --
3 if say they got claims that weren't well defined, in the
4 first place, they could -- they could quickly do this
5 without having to necessarily go through a whole lot of
6 rigmarole in terms of -- or a whole cost effort in trying to
7 come up with some definitions to start out with.

8 I was just thinking as I was listening to Jason
9 talk about notices of allowability. I think, you know,
10 right now, at least the way I recall the law is that they
11 don't have any real legal effect, right. So I think the
12 concern with notices of allowability -- and Michelle has
13 expressed this as well about having them being uninformative
14 -- is I don't think they are very well -- you know, they're
15 not meant to be informative. They're not well thought out.
16 And I'd be concerned that, you know, if we somehow started
17 to use them, we'd have to really put a lot of effort in to
18 making sure that, you know, what the -- what the examiner
19 wrote down was somehow, you know, really -- really salient
20 material to the patentability concern. And that actually
21 might be problematic.

22 MR. COHEN: Well, it's interesting. You talked
23 about the -- what do you think, to have an actual legal

1 effect? It sort of takes us back to where Daralyn started
2 us off.

3 How would these changes in examination mechanisms
4 to try to give greater notice play out when you went through
5 the -- the court system? Is it likely to be a matter that
6 would require deference? Would it instead be interpreted as
7 part of the -- the prosecution history? Would it ultimately
8 hold up in -- in a sense that would give a desirable
9 certainty?

10 I don't know if Dan was going to be talking to
11 this, but if you're up.

12 MR. BURK: Well, I can talk to that, I guess.

13 MR. COHEN: And whatever else you were going to --

14 MR. BURK: Yeah. This is sort of a metacomment,
15 which I think goes to your -- your question and to the
16 previous conversation. And I'm sorry to be a little bit of
17 wet blanket here, but the conversation we're having reminds
18 me of nothing so much as the conversations that have gone on
19 for my entire career about reforming the Federal Rules of
20 Civil Procedure, right. And periodically every few years we
21 come back here and say we're really going to fix discovery
22 to where people give truthful responses and it really lowers
23 the cost of litigation. It really fixes things.

1 And we tweak things. We find out that the game is
2 different, but it's still a game. And a few people have
3 said, you know, we could do these things and there will
4 still be some gamesmanship. I think it goes back to
5 something that Jason said about transaction costs and cost,
6 right.

7 People who are trying to get patents have a
8 certain amount of time and energy to spend getting patents.
9 And the Patent Office has a certain amount of time and
10 energy to expend doing examination. Realistically, we're
11 not going to get huge influxes into the budget of the Patent
12 Office, so we get something, a very different institution
13 than we have right now.

14 And so the question we have to ask at a fairly
15 high level is where do you want to encourage people to spend
16 that time and money, right. And we can kind of pushed it
17 around to different places. And some of these suggestions
18 will push it one place. And some will push it other places.
19 But it's going to net out to be about the same, is my guess.

20 And so the question is would we rather have them
21 spend it on one activity than another. One very real
22 possibility is that we end up spending more money on the --
23 on the back end, right. You know, say, well, we won't spend

1 quite some much time playing games with the Patent Office.
2 Then we'll play games when we get to litigation, right.

3 And that's when we get your question about do we
4 need to put in place some type of either administrative-law
5 type of direction or can the courts fashioned this
6 themselves to say, well, how should you really look at this,
7 you know, what was done.

8 And we're beginning to see some progress in that
9 direction, starting with *Zirco* as to, you know, what the
10 relationship between the courts and the Patent Office ought
11 to be. But that's still pretty ambiguous, right. So either
12 some development in judicial doctrines, looking at the
13 Patent Office, or some direction from Congress as how to how
14 to look at information coming out of the Patent Office would
15 -- would, I think you're right, be enormously helpful there.

16 MR. COHEN: Daralyn.

17 MS. DURIE: I very much like Jason's suggestion
18 regarding the notice of allowance and trying to have a clear
19 statement in it that actually delineates what the basis for
20 allowance was, rather than simply reciting all of the claim
21 limitations and stating that combination was novel over the
22 prior art, which is not particularly helpful.

23 I am concerned that in the absence of more

1 explicit guidance it would not get much traction with the
2 courts, because it's a statement by the examiner, not a
3 statement by the applicant. And there'll be a lot of
4 courts I think who really because they view the prosecution
5 history through the lens of disclaimer consider statements
6 by the examiner to be much less relevant.

7 To Lee's point, though, I mean if the response to
8 that is to say, well, we don't really care so much what the
9 examiner thought, what does that do to the presumption of
10 validity? I mean isn't what the examiner thought and the
11 reason that the examiner allowed the claims actually the
12 touchstone of what we care about? I think it is.

13 MR. COHEN: Let's take the three signs that are up
14 and move on. Let's hear from Peter.

15 DR. MENELL: I'm not sure this is what Dan was
16 getting at with his comment about the Federal Rules of Civil
17 Procedure, but I will say that there has been a procedural
18 sea change in patent litigation over the last decade that
19 really traces to a grassroots movement begun in the Northern
20 District of California and the patent local rules. And I
21 think any lawyer today will acknowledge that that has
22 dramatically improved the consistency. And that process has
23 now spread to more than 12 districts around the country.

1 These are the districts where a lot of cases are being heard.
2 And even lawyers who are litigating in other districts have
3 basically internalized that process.

4 So I think that there is room here for changes in
5 the examination process to create a little more consistency
6 in terms of what judges have to do with the claim-
7 construction stage. And so my -- I think that the answer,
8 the straightforward answer to your question is that you
9 would see these effects. They're going to be delayed just
10 because there's a five-year period in between applications
11 in the Office now and litigation. But there is no doubt
12 that this would be a relatively low-cost investment. And it
13 goes right to the heart of what we are trying to accomplish.

14 Another somewhat tangential benefit of focusing on
15 this is that we have this peculiar language in the *KSR*
16 decision, I think generally correct language, saying that
17 the presumption of validity perhaps has less importance when
18 there's new art introduced later. And so that's all in the
19 spirit, I mean of telling judges that the Patent Office is
20 reliable for what they look at; and having in some ways
21 greater commentary by the examiners, you know, should be
22 given some -- maybe not deference in a chevron sense but,
23 you know, some degree of consideration could help.

1 And, you know, we could go further and make it
2 more of a deferential process, at least for art that the
3 examiner considered. But those I think are the ways in
4 which you improve administrative and judicial interactions.

5 MR. COHEN: Let's take Kevin and then John.

6 MR. RIVETTE: To Jason's point about transparency,
7 I agree with you for almost all of the Office actions, that
8 we should be very much transparent; that's the examiners
9 probably should be putting more in there and not just
10 checking off boxes.

11 With regard to the -- you know, let's say we did
12 go to an initial interview prior to first office, I would
13 suggest that we not make that transparent. Because at that
14 point what we're really doing is trying to wrestle to the
15 ground what it is we're talking about. And if we really do
16 step in and make that transparent, my gut is what you'll
17 find is that everybody lawyers up real fast and it really
18 doesn't -- it doesn't solve the real issue, which is can we
19 get at least get within, you know, horseshoes and grenades
20 of what this thing is that we're dealing with.

21 MR. SCHULTZ: Can I respond just for --

22 MR. RIVETTE: Yeah, yeah.

23 MR. SCHULTZ: I mean I completely understand.

1 That the chilling effect that I was --

2 MR. RIVETTE: Right.

3 MR. SCHULTZ: -- sort of sensitive to. The
4 problem that I struggle with around that, though, is then we
5 pretend that the specification in the application that they
6 submitted is the invention. Right? So it's like we are
7 struggling with -- and if we're talking about notice, right,
8 and we sort of go back to this -- I mean, this is what we've
9 published. We've published the application, right? And it
10 just -- it makes me -- it's like, well, I want to get the
11 examiner and the applicant closer together to make it
12 efficient. But, at the same time, if there's a notice
13 function being played by the documents that were filed
14 previous to that, then I feel like we're actually kind of at
15 odds with ourselves. And so I just don't -- I would ask,
16 well, what do you do about that?

17 MR. RIVETTE: So one of the things that we found
18 as we went through the trial, is when we get an open
19 discussion with them, many times they will back off and say,
20 you know, I may not have an invention here.

21 And what had happened in a couple of the instances
22 -- because what we're talking about here is actually
23 bringing in the inventor, not just the lawyer. It's not

1 just the lawyer sitting down and say, here's what our
2 invention is. It's the inventor or saying to the examiner,
3 you know, why don't you get it; or the examiner saying,
4 well, why don't you get it, that there's really nothing
5 here. And that allows a different conversation then, once
6 the office actions start and everything is on the record.

7 And so we -- we thought long and hard on this
8 issue, because if everything is on the record, then there's
9 no misstep that's allowed, there's no ability for them to
10 go, 'I didn't think of it that way.' There's no ability to
11 stand back.

12 MR. SCHULTZ: Right. And I completely understand.
13 But then what do you do about to about the documents and the
14 presumptions of -- of the notice that come with --

15 MR. RIVETTE: Yeah, but those -- I mean the first
16 office action normally hits that which is, you know, after
17 the discussion what normally happens is here are the things
18 we're -- you know: I've looked at it. I understand your
19 point of view, but I still disagree with that. Or: Here's
20 why I'm going to reject. And all of those should be open.
21 And I think we should have better -- better transparency to
22 those issues, because I think that we don't do enough right
23 now to articulate what the examiner was thinking. It's too

1 easy for him to check off boxes.

2 But I would caution that the chilling effect could
3 be so great, because -- I mean we went through this ad
4 nauseam on interviewing different groups. The moment we
5 make this truly transparent, at that point no one is going
6 to say anything. And then we really -- now we're in a very
7 adversarial system the whole way through. So that's the
8 only point I'd make on that.

9 MR. COHEN: John.

10 MR. McNELIS: We've all been talking about
11 different ways we can improve the process. All of them
12 require additional time from the applicant and the examiner.
13 The examiners don't have enough time. The examiner corps
14 doesn't have enough time to do a thorough job on all the
15 applications they're working with.

16 MR. RIVETTE: And I will tell you on some of them
17 it's real easy. Otherwise, we got problems.

18 MR. McNELIS: And so there's a couple solutions.
19 We've talked about using Europe as a guide. And Europe does
20 cost more to file applications. We could double our filing
21 fee, at least for large entities. And that would --
22 presuming Congress doesn't take away the money, we would
23 have double the amount of time for the interactions and for

1 the examinations, which would be great.

2 Europe also has -- at least in Germany has a dual
3 patent model. They have a utility model and a utility
4 application -- a utility patent. And we have in our system
5 one patent where the rights are this huge monopolistic
6 right. There's no compulsory licenses. And it's basically,
7 because of the damages, with the issues going on in Congress
8 with damages, you have one product -- you have a product,
9 one piece of that product, and profits from that entire
10 product can be given for one element. And that's a huge
11 issue.

12 And so another possibility is to do something like
13 the German model and we have a bifurcated system, where for
14 less cost you can file a patent applications, which the
15 process would be similar to what it is today, but maybe
16 there's compulsory licenses involved. Maybe damages are
17 more proportional to that aspect of the product which it
18 contribute to. And we can have a more expensive utility
19 application where there is significantly more examination
20 that's going on back and forth and maybe require more from
21 the applicant.

22 And we can charge 5,-, \$10,000 for something like
23 that. And then the rights for that patent, if it issues,

1 would be what we're seeing today, where there's no
2 compulsory licenses and you get the true monopolistic
3 rights. But in some way it's going to cost more money for
4 us to get a better notice for in place.

5 MR. COHEN: I'll break my -- my prior statement.
6 We'll take Lee to wrap up on examination, then we will on.

7 DR. PETHERBRIDGE: So I just wanted to -- really
8 my thoughts were -- were sort of stuck in the colloquy that
9 Jason was having with Kevin about sort of these pre-
10 examination interviews. And, you know, my recollection from
11 just when -- you know, back when I practiced and at the
12 court, and times like that, was much like Michelle's, as she
13 represented earlier, which is you look at these prosecution
14 histories and there's not that much of the examiner's work
15 product written down, which, you know, it would always I
16 think be helpful to see more of that.

17 But the other thing that I sometimes think happens
18 in these interviews is that people go in and sort of
19 represent, well, look, maybe we don't really have that much.
20 And you can get a sense of some kind of an agreement, sort
21 of maybe between the examiner and an applicant or potential
22 applicant about what an invention is.

23 But then the language that sort of comes out of

1 that meeting is, well, the applicant -- and the -- or maybe
2 I should say the examiner has a view of what the invention
3 is based on what was told to them in that meeting. And then
4 the language that sort of develops in the patent document
5 might not well reflect that viewed more objectively from --
6 from people on the outside, right. So what you might have
7 is a sort of, kind of a representation of a narrow invention
8 they could sort of, well, we know it's narrow, and then the
9 words used to sort of talk about it are -- are maybe much,
10 much broader or more uncertain. That's sort of at the end
11 of the day that allows for, you know, some gaming of the
12 system here -- there, by not sort of allowing for some
13 transparency in that sort of an initial interview, so I
14 don't know.

15 MR. COHEN: Okay. Let's shift now to the issue of
16 notice that can come from pending applications. I'd like to
17 start briefly with publication. I think -- well, we're
18 probably now into a set of issues where we can try to give
19 short answers, which might convey a lot of useful
20 information in the little time that we have left.

21 On publication, I heard a couple of you already
22 talk about the idea of the possibility of publishing inside
23 the 18-month period, shortening that, or doing away with

1 that. I'm wondering if anyone else wants to comment on
2 that, on whether that would be useful. Whether the 18-month
3 delay is currently a problem of any magnitude. And whether,
4 if you went to publication, whether that would have any
5 downsides.

6 Michelle.

7 MS. LEE: So I think I'm in favor of publication,
8 definitely. And Peter's suggestion of immediately upon
9 filing is a good idea. The problem is is the rest of the
10 world doesn't have immediate publication.

11 DR. MENELL: Exactly.

12 MS. LEE: So that would create some gamesmanship,
13 right? If I really didn't want the world to know about my
14 application, I might go file in a different jurisdiction, et
15 cetera, et cetera. So I think there are some practical
16 realities there, as between a publication obligation and
17 none.

18 Even at the 18 month, I'm in favor of the
19 publication requirement at the 18 months. And, you know,
20 when you look at the 18-month period in the software space,
21 some product development cycles are very short, on the order
22 of three months from concept to launch. So even if I want
23 to do a clearance search, right, and I want to know what my

1 competitors have filed or what other inventions are out
2 there by individual inventors, by definition my search and
3 the information that I have access to is out of date. So
4 that's a problem. But an 18-month delay is better than a,
5 what is the delay now, four to five years between a filing
6 and issuance? So if I had my choice I'd rather an 18-month
7 delay.

8 MR. RIVETTE: Should be across the board.

9 MR. COHEN: Yeah, let's throw in the issue for
10 publication, as to whether we would want all applications
11 published.

12 MR. RIVETTE: Yeah.

13 MR. COHEN: And not just so those that are filed
14 foreign.

15 MR. RIVETTE: Internationally, or large, or
16 entities, right.

17 MR. COHEN: Kevin.

18 MR. RIVETTE: You know, my -- and this is not on
19 behalf of the Office or anything else. I mean my gut is
20 that everybody should be treated equally. I think that the
21 18-month rule would work and that you should file it -- no,
22 I mean there shouldn't be exceptions. That's my gut.

23 MR. COHEN: John.

1 MR. McNELIS: I think the concern are the solo
2 investors, primarily. I think most corporations are fine
3 with the 18 months. I do think it should be, for anyone who
4 is not necessarily a solo inventor, it should be everyone is
5 18 months. There should be no distinction between whether
6 something was filed internationally or not.

7 MR. RIVETTE: But they don't have that in Europe.
8 They don't have that anywhere else.

9 MR. McNELIS: Correct. I think this is a more
10 pragmatic response in terms of what the issues are with the
11 solos here.

12 MR. COHEN: Maybe you could explain what the
13 concern is that the solo inventors have.

14 MR. RIVETTE: Right.

15 MR. McNELIS: The concerns I've heard from solos
16 are primarily that if you go and you disclose something too
17 quickly, then you're stuck in a situation where the larger
18 companies can go and basically steal the idea and there's
19 essentially no recourse because it's so expensive to follow
20 up.

21 And so the issue basically comes down to -- I
22 think everything should be published, I don't think it
23 should be limited. I think small entities should be subject

1 to this also. I think there potentially should be just a
2 carveout for those that are truly solo in method.

3 MR. COHEN: Anybody else on publication?

4 A little bit related to this there is the issue,
5 which has been floating recently, of deferred examination.
6 And I'm wondering if anyone has thoughts as to whether there
7 are any specific features that should be incorporated in a
8 deferred examination system that would help safeguard
9 notice. Publication requirements, anything along those
10 lines? Do you have any thoughts here?

11 If not, we'll move on.

12 Let's talk about evolving applications and, in
13 particular, how this ties in with written description and
14 enablement. And I guess the overall question is: Do you
15 feel that current written description and enablement
16 requirements cause applicants to provide adequate notice as
17 to the universe of inventions with respect to which the
18 applicant may ultimately be able to claim exclusivity?

19 How is this working out? Are you -- have you in
20 your experience been surprised or are you normally able to
21 see what's likely to emerge? Anyone here.

22 Michelle.

23 MS. LEE: I think the audience probably knows my

1 answer to this question, but in the cases that deal with, I
2 mean we are routinely surprised with what we read in the
3 written description and what the patent owner claims the
4 coverage is. So I mean it's just -- for us it's a habitual
5 problem. So we look for greater -- we'd ask the PTO to look
6 for greater support in the specification, to actually use
7 terms that have support in the specification.

8 And also when there's a continuation practice,
9 oftentimes an application that is published and the claims
10 that are published in that application, if you look at the
11 fifth generation continuation, the two look nothing like
12 each other. So that's a problem. And, you know, even good
13 faith companies that want out avoid infringement, it's very
14 difficult, so.

15 MR. COHEN: Vern.

16 MR. NORVIEL: So this is probably predictable
17 also, but I actually think that the pendulum in life science
18 has swung yet too far the other direction. As a practical
19 matter, the examiners these days without significant battles
20 are willing to give you pretty much only exactly what you've
21 actually done in the first blush in life science. So this
22 is restricting or limiting to some extent I think investment
23 in healthcare, so I think that if that were to swing further

1 I think it could be extremely damaging to health innovation
2 in this country.

3 I do think we can again learn from that and see
4 that once the examiners are incentivized and knowledgeable
5 enough, they can see when people are playing games and
6 trying to scoop up the world when all they really did was a
7 very small thing.

8 So I think we should learn from that in other
9 industries, but I think again we have to be very careful not
10 to clamp down on that even further such that we have a
11 healthcare industry that is no longer financeable in this
12 country.

13 MR. COHEN: Well, I'd like to develop this idea of
14 learning from that in other industries. Does anybody have
15 thoughts as to the extent to which written description and
16 enablement are being adequately enforced in, say, the
17 electronics industry or the mechanical arts?

18 Anyone want to talk about it from that
19 perspective?

20 Dan.

21 MR. BURK: I guess I was just going to sort of
22 make a general comment, also very predictable in answer to
23 your original question, which is it depends, and we just

1 heard that it depends, right. Which is both in the Patent
2 Office and when we get to the courts, the disclosure
3 requirements are enforced in very different ways in some
4 industries than in others.

5 So I don't think we can give a blanket answer to
6 that question. Even in Vern's comment, I mean I'm getting
7 the sense as Vern is talking, he talks about life sciences.
8 That carries a whole lot of territory, all the way from sort
9 of straight chemistry to things like bioinformatics, which
10 would be really IT. But at least as far as what the
11 empirical evidence is that people have developed in sort of
12 discrete technologies, written description and enablement
13 are not being treated the same in different areas, which is
14 the problems that Michelle's seen as opposed to the kinds of
15 experiences that Vern's talking about.

16 MR. COHEN: Daralyn.

17 MS. DURIE: I again and, perhaps, shockingly I
18 actually agree with Vern. I think in the biological arts
19 the written description are sometimes being applied to
20 stringently. And the problem there is that there's such a
21 focus on the specific examples and the specific actual work
22 that was done. And even when there is a description of a
23 broader genus of the invention, there's a finding that

1 there's not support for that, even though it's something
2 that the inventor pretty clearly described as being within
3 his contemplation.

4 On the other hand, I think when you do get into
5 some of the IT areas, there really doesn't seem to be much
6 enforcement of the written description requirement at all.
7 And I think it may be because sometimes the invention is
8 less tangible. In many cases, the inventor didn't do any
9 inventive work at all, I mean in the sense of actually
10 reducing something to practice as opposed to filing a patent
11 application. And I think in those cases there's sometimes a
12 tendency to just kind of -- for people to throw up their
13 hands and not really know how to apply the written
14 description requirement in that context.

15 MR. BURK: And if I can add a footnote to that. I
16 mean differential applications are not necessarily bad,
17 right. I mean you want a written description that is as
18 precise and full as the technology allows. So the real
19 question we're talking about is whether you have inadequate
20 enablement or inadequate disclosure in a written description
21 in a technology where you could do more. Maybe the Patent
22 Office or the legal doctrine should have pushed you to do
23 more, and you didn't, as opposed to one where it's

1 appropriate to how that technology actually works.

2 MR. COHEN: And I guess in our context the further
3 question is: Are we getting differential notice to third
4 parties --

5 MR. BURK: I think we just heard that we are, yes.

6 MR. SCHULTZ: If I could just add one really quick
7 thing. I think in the software IT space, in particular the
8 type of claim, and I know that some things get claimed as
9 machines, but like there's so many of these broad-method
10 claims. In particular, and I know that when I did do one
11 project with the Clinic on freedom to operate for a medical
12 device, it was not the device patents that were the problem
13 but the manufacturer methods and the other methods. So I am
14 noticing a differential there in the type of claim as well.

15 MR. COHEN: What I'd like to throw into this
16 discussion, that would be the procedural aspect of
17 continuations and broadening continuations and the extent to
18 which this has affected the ability to see notice.

19 Do you agree or is it the feeling of the panelists
20 that there's some tension between continuation practice and
21 public notice?

22 Vern.

23 MR. NORVIEL: Just leave it up. So I'm very clear

1 and strong on this point. We actually had an informal
2 study. And in healthcare, again because the examiners are
3 so restrictive in healthcare, if there are not continuations
4 and divisions available reasonably widely in healthcare,
5 there will absolutely be a restriction on healthcare
6 investment in this country, I guarantee that. So we have to
7 be very careful in this regard.

8 Again, I think if the examiners are being very
9 careful you won't have continuations popping out with
10 absurdly different claims in the fifth continuation or the
11 first continuation. I don't think the fifth one should be
12 any different than the first one, and there's no conceptual
13 reason why they should be. So I think we have to be
14 extremely careful about this because most cases that are
15 litigated in life science you would find were on subsequent
16 continuations. And if the examiners are only able to do the
17 first one in life science, then the VC is not going to be
18 investing in those companies to do things like cure cancer
19 and Parkinson's and those sorts of horrible diseases.

20 MR. COHEN: John.

21 MR. McNELIS: I agree with Vern, I think
22 continuations are critical to keep and not to limit as per
23 the rules that were promulgated about a year and a half ago.

1 One of the issues is the notice. And as long as
2 the applications are published and the prosecution history
3 is available on PAIR, I think the problem is very
4 manageable. It's those applications that aren't published
5 and so you get an issued patent, but you don't see what's
6 going on in continuations. That becomes more of a problem.
7 And so as long as we can address this issue significantly in
8 my mind by just solving the publication issue.

9 MR. COHEN: Dan.

10 MR. BURK: I guess I'll just comment that this is
11 sort of the poster child for my earlier comment about
12 gamesmanship, right. I mean so back when I was practicing
13 before what was -- used to be Group 180 and is now 1800 and
14 we had 17 years from issue, we played games with restriction
15 requirements.

16 Now that's gone away and so people play games with
17 continuation practice. And so there are going to be
18 unintended consequences where people shift their effort
19 depending on what you do.

20 The happy -- there's probably some happy medium
21 between having enough continuations and being able to play
22 the games that people play with continuations.

23 MR. COHEN: Michelle.

1 MS. LEE: So I wish I lived in Vern's world, in
2 terms of the patents that are issued out of your world. But
3 going to the issue of continuation, I think it does run
4 contrary to notice in our space. And I just want to give
5 one example.

6 I mean oftentimes what happens in our space is the
7 applicant who is filing the continuation is not the
8 inventor. So you've got a nonpracticing entity, a patent
9 aggregator, that goes out onto the market, specifically
10 looks to buy applications that are pending so that they can
11 file continuations and mine it for everything that it's
12 worth. They know all the rules in the Patent Office. They
13 know what they can get through. They know that you can add
14 new claims, you can amend the claims to target other
15 competitors, and the Patent Office is not going to look for
16 a lot of support in the specification.

17 They will also look to issue patents and they will
18 attribute greater value to patents that are within the
19 reissue period, precisely so that they can go back and mine
20 it for more. So I mean there is the opportunity for
21 gamesmanship. I mean that's whether you're talking about an
22 NPE or a real company, but the consequences for NPEs and
23 what they're able to do with it and the consequences to

1 operating companies is a pretty serious one in our area.

2 MR. COHEN: And, Jason.

3 MR. SCHULTZ: Yeah, just to follow up on that.

4 Just for -- I think what -- I mean continuations have been
5 talked about and I think that there are a lot of criticisms
6 that are very, very valid. And I think this tying the
7 claims to the specification, that's really one of those key
8 areas where you see this sort of, you know, weird connection
9 and you can't figure out what is the connection between this
10 and the original filing.

11 And so I think tightening that up and maybe even
12 having, like I said, like a simple chart saying: Okay,
13 well, where is the connection. I think this at least gives
14 us more information about how far they're stretching it.
15 And maybe in some fields -- I agree, maybe that's totally
16 necessary and it's totally supported in the spec.

17 MR. COHEN: Kevin.

18 MR. RIVETTE: Yeah. To follow up on Jason and
19 Michelle's, Michelle, I think that the real issue is exactly
20 what Jason was going to, which is if it was tightened up, if
21 the spec was the only way you were going to be able to
22 expand those claims or change those claims, but that goes
23 back to, you know, how do we examine properly and how do we

1 incentivize the examiner to be able to spend the extra time,
2 or at least structural how do we have it so that you can
3 easily see where the change was, because I don't think
4 continuation per se is the issue.

5 MS. LEE: So I absolutely agree. I'm not saying
6 continuation per se is bad, but it is subject to a lot of
7 abuse.

8 MR. RIVETTE: It is the practice that -- yeah.

9 MS. LEE: And to the extent that the Patent Office
10 can be stricter in its enforcement of support, I'd be in
11 favor of that.

12 MR. RIVETTE: Yeah.

13 MR. COHEN: Okay. For our last set of issues,
14 Bill Adkinson's going to take over.

15 MR. ADKINSON: Thanks, Bill.

16 And we've been -- we started this morning talking
17 about the current state of notice and have now been speaking
18 for quite a while on how the clarity of the patent document
19 and certain doctrines can be improved.

20 I wanted to throw out a couple of issues of where
21 are we now? Do we -- what do we think practically can be
22 done to improve notice given the discussion we've had of
23 really a very broad set of possibilities? What problems

1 remain with respect to the numerosity of patents. And given
2 that assessment, what else might we do beyond simply trying
3 to improve patent clarity and, in particular, do something
4 about the way in which the remedy system, which we'll talk
5 about this afternoon, plays into notice?

6 As Peter mentioned, one possibility is having
7 inadvertent infringer defense or prior user defense as sorts
8 of issues. Or simply other mechanisms which might make
9 damages depend on the level of notice. So I'd like to throw
10 out that broad set of questions.

11 Yes, Daralyn.

12 MS. DURIE: Well, I think it is the case that you
13 have to think about notice issues on the back end as well as
14 on the front end, because I don't think you can remedy the
15 problem on the front end, particularly in art areas like the
16 IT space. I think the problem is simply intractable.

17 And, as a consequence, you are going to have large
18 numbers of infringers who did not receive actual notice and
19 could not plausibly have received actual notice at the time
20 that they are making design choices relating to their
21 products.

22 And of course the problem now where you measure a
23 reasonable royalty as of the date of first infringement is

1 that you're looking at how much an accused infringer would
2 be willing to pay after those design choices already have
3 been made. And so built into the current structure is the
4 availability of the argument that the infringer should have
5 to pay a premium because the cost of redesigning the product
6 to avoid infringement would now be so great; whereas, had
7 they actually received notice of the patent, they would have
8 been able to evaluate what the choices were ex ante and
9 perhaps choose a noninfringing patent.

10 I think our damages analysis needs to reflect the
11 reality that notice in many cases is not practical and that
12 if you are an innocent infringer you should be able to go
13 back not just to the date of first infringement, but to the
14 date when the actual design choices were being made and
15 evaluate what the value of the IP would have been at that
16 point.

17 MR. ADKINSON: Kevin.

18 MR. RIVETTE: I'm going to take it actually from
19 -- and I agree with Daralyn, but I think I'm going to take
20 it from a different perspective and that is how the FTC
21 looks at this not just on a notice issue but I've watched --
22 you know, so when notice goes out, I've actually watched
23 situations where companies have decided to move offshore,

1 set up an infringing company. They know it's an infringing
2 product. Two or three of those companies then manufacture
3 the product, but sell it through hundreds of others
4 companies in a global supply chain. And then it comes back
5 into the U.S. and it's too expensive to actually fight it on
6 an individual basis.

7 The ITC only gives you injunctive relief, even if
8 you go for a global. And I'm going to suggest that the FTC
9 should probably start taking a more nuanced look at global
10 supply chains. Because I see it almost as a situation where
11 you're looking at like a tax issue: How can we avoid taxes
12 in the U.S. And what we've got here is: How do I avoid
13 infringement if I go to a global supply chain and then bring
14 the product back in and it's really difficult for a patent
15 holder to be able to, one, get notice to them. But even if
16 they get notice to them, what do they do? How do they
17 actually stop this? And there's no damages typically
18 involved.

19 So I'm going to suggest that that's an area that
20 the FTC might actually want to look long and hard at, at the
21 anticompetitive side.

22 MR. ADKINSON: Thanks.

23 Anyone on this side? Peter, do you have any

1 thoughts on this?

2 DR. MENELL: Well, I mean I do think this is a
3 very fundamental issue. I don't think it can be solved --
4 well, I'd be skeptical you could solve it without
5 legislation.

6 MR. ADKINSON: Yeah.

7 DR. MENELL: And so that puts in a different class
8 than several of the things we've talked about. But the
9 economics, I think, are very supportive of this. There's
10 been a number of articles that have kind of developed this
11 theme.

12 And I think we can -- I don't know that it's
13 legislatively feasible, but I do think when you think about
14 it from the standpoint of promoting innovation, you've got
15 people working in laboratories who have no ability to know
16 what is out there. And to tell them that you could face,
17 you know, all kinds of damages based on a very uncertain
18 standard by going ahead with those projects, I think it just
19 chills that area of innovation unnecessarily.

20 MR. ADKINSON: Mark Lemley and Chris Cotropia
21 wrote an article published this year which showed that
22 outside the pharma area more than 90 percent of all
23 complaints filed were -- appeared to involve allegations of

1 infringement that did not include allegations that the
2 patent was known before the filing of the lawsuit. So that
3 inadvertent infringement in that sense, and you can define
4 it obviously in a variety of ways, was quite -- accounted
5 for a large portion of total complaints, much less actual
6 trials.

7 Dan, did you have -- or, I'm sorry. I'm sorry,
8 that's --

9 MR. BURK: I had a point on the earlier theme.

10 MR. ADKINSON: Got you.

11 MR. BURK: No, go ahead. I'm sorry.

12 MR. ADKINSON: Daralyn.

13 MS. DURIE: I just had a comment on that last
14 point. I think part of this may be the somewhat unintended
15 consequences of the *Metimmune* decision, --

16 MR. ADKINSON: Um-hum.

17 MS. DURIE: -- because now that the standards for
18 declaratory judgment have loosened up, --

19 MR. ADKINSON: Right.

20 MS. DURIE: -- if you are a patent holder, it's a
21 much greater risk to go make any kind of overture with
22 respect to the licensing because you face a risk of a
23 declaratory judgment suit, even if you don't make an

1 explicit threat of infringement. So I think that may
2 account in part for the increasing number of cases where
3 there's not an allegation that the accused infringer was put
4 on notice, and I do think that that makes this problem even
5 more acute.

6 MR. COHEN: Yes, Michelle.

7 MS. LEE: Yeah, so in almost all the cases that we
8 are dealing with, all the litigations, we did not receive
9 prior notice. On only a very small portion of them did we
10 actually receive a letter, the opportunity to discuss it.

11 And what that means, though, for businesses is
12 that once you're in litigation mode, right, they know the
13 cost of defense is on average 5,- to \$6 million, so guess
14 where the settlement price starts: It's 5,- to \$6 million.
15 And if you're dealing with an NPE and you're an operating
16 company, the bulk of the discovery, which is in the initial
17 phases of the litigation, is going to fall predominantly on
18 the defendant. You've got lots of engineers, you've got
19 lots of product development. Maybe the NPE bought the
20 patent from somebody else and there's some documents
21 associated with the invention, but there's not a lot.

22 So already there's a disproportionate balance
23 there and a disproportionate leverage, combined with --

1 that's just through discovery -- by the time you go through
2 summary judgment for hopefully an early summary judgment on
3 noninfringement or invalidity, you're talking easily 2,- to
4 \$4 million -- well, 2,- to \$3 million. Daralyn would know
5 the numbers better. But, again, --

6 MS. DURIE: Ours are cheaper.

7 MS. LEE: -- there's a tremendous amount of
8 leverage and there's a tremendous temptation, regardless of
9 the merits of the patent, regardless of how much notice --
10 you are under no notice, to just pay an amount of money
11 under some amount of -- you know, under 3,- to \$4 million.
12 So that's a practical consequence of notice and litigation
13 and coming to you before versus later.

14 MR. ADKINSON: One other related question here is
15 whether we can get better notice by being more specific
16 about burdens and consequences of burdens for both the
17 applicant and patentee, on the one hand, and the alleged
18 infringer on the other to do more to make the existence of
19 the patent known, on the one hand, or to search for patents
20 before taking action, on the other.

21 Do you think panelists have feelings about how
22 doctrines like the willfulness doctrine, for example, could
23 be used in this way?

1 MR. SCHULTZ: Yeah, I have a couple comments
2 related to that. I mean I think what we've seen in both
3 today and yesterday is that not all notice is equal, right.
4 So that there are different levels of notice that you get.

5 And I thought I was struck yesterday in hearing
6 some of the discussion about valuation, about, you know,
7 you'll have these experts on the plaintiff side versus the
8 defense side and sometimes the difference in their valuation
9 will be a thousandfold. Right, like that's the difference
10 in terms of damages assessments.

11 And what's interesting is in copyright law we have
12 a wide range of statutory damages and other kinds of
13 damages, and there are problems with that that have been
14 talked about. But there is not only the opportunity to go
15 up when you have willful infringement and copyright but the
16 opportunity to go down, right.

17 And there's some argument about how much guidance
18 there should be for courts and things like that and judges
19 and juries, but there might even be some way to sort of
20 incorporate guidance as to this level of notice and also in
21 going to the ambiguities that we talked about, right, in the
22 claims and things like. And perhaps that should have an
23 influence on the amount of damages and the valuation. That

1 the clearer the patent is, -- talk about incentives -- the
2 clearer the patent is and, you know, that's believable, then
3 maybe more damages are merited. And if it's more ambiguous,
4 it was hard to figure out that this would have been
5 something that, you know, infringed, maybe some way to kind
6 of ratchet down the damages because of more of the innocent
7 infringement type idea.

8 MR. ADKINSON: Kevin.

9 MR. RIVETTE: Yeah. I just wanted to respond
10 actually to the prior one and this is more towards
11 Michelle's comments. And, having been at IBM, I understand
12 the issues of being a large target and seeing them roll
13 across you know the transom.

14 I will suggest, though, that having looked at
15 this, the asymmetrical imbalance, it's not just an NPE, and
16 I get nervous when I see the NPE rolled out as, you know, a
17 real bogey man, and maybe that's not what you were meaning
18 at all, but I just wanted to make the comment that I've seen
19 it with small companies, I've seen it with small inventors.
20 I've seen it with people backed that are inventors, that
21 it's not an NPE situation.

22 I think that distinction should probably go away
23 and we should look at this in a more global perspective, on

1 how do we deal with the system. Because I think if we make
2 the distinction at the NPE stage, I know a lot of companies
3 that produce a lot of research that goes into other people's
4 products. IBM was great with Lasix. We developed that.
5 Are we an NPE because we never really practiced it? I mean
6 these are sort of things. So that distinction, and that was
7 the only thing I had wanted to point out, is that I actually
8 find difficult for myself to go through.

9 MR. ADKINSON: Are there things that the PTO could
10 do to make it easier for firms to identify potentially
11 relevant patents?

12 MR. RIVETTE: In what -- I think, yeah, so I think
13 the PTO, and you'll see in the 2008 PPAC report, we're
14 looking for more transparency. We're looking -- at least
15 the Advisory Committee is.

16 The PTO has a huge problem with IT right now. I
17 mean we would love to put in systems of unitary search for
18 the examiners. We would love to put in systems where we
19 have, you know, statutory checks in all of the patents that
20 come in in textual format, so we can actually find out
21 whether or not they should even get to an examiner.

22 I think that public PAIR should be completely out
23 there. I don't see there's any reason why we have to screen

1 scrap those on the private side. I think all of that
2 information should be public.

3 And, having pushed at this a number of ways,
4 typically what I run up against is the IT system is so
5 delicate at the PTO that a lot of this can't be done the way
6 it is right now. So I mean if I were here, I'd make a plea:
7 Let's fix that. And now we've got a CIO that is doing that,
8 we have a path forward, but I would like to see everything
9 transparent as much as possible.

10 I'd like to see all the file wrappers easily --
11 you know, they're in electronic format, let's make them
12 easily accessible. Let's make it so that you could click on
13 the file wrapper from the patent. Let's make it so that you
14 could click on all the prior art patents from the patent.

15 I mean this is not rocket science. And I think
16 that would go a long way to notice. I think it would allow
17 the kind of user experience that we all expect from the net
18 right now. And thanks to Google we have most of it and we
19 don't understand why we can't get there from here at the
20 office, so.

21 MR. ADKINSON: Good. Thanks.

22 MR. COHEN: Okay. Listen, I did give you a
23 promise that you'd all have an opportunity to make any final

1 comments that you felt that we skipped over. I didn't
2 promise you that I'd do it before we were all ready for
3 lunch, but if anybody wants to say anything further?

4 Otherwise I'm going to thank you all for what I
5 thought was a very helpful and very informative panel. I'm
6 looking forward to reading the transcript and learning even
7 more as I go over it and over it.

8 I want to add that there will be an opportunity --
9 I guess -- through May 15th?

10 MR. ADKINSON: Right.

11 MR. COHEN: -- to continue to submit written
12 comments for our record, and that would always be
13 appreciated. And just the final repetition of thanks for a
14 job well done. Thank you.

15 MR. ADKINSON: And thank you.

16 (Applause. Luncheon recess taken from 11:58 a.m.
17 to 1:32 p.m.)

18

19 PANEL 2: PATENT REMEDIES

20 MODERATORS:

21 SUZANNE MICHEL, FTC

22 BILL ADKINSON, FTC

23 PANELISTS:

1 YAR R. CHAIKOVSKY, Partner, Sonnenschein Nath & Rosenthal
2 LLP

3 MARY E. DOYLE, Senior Vice President and General Counsel,
4 Palm, Inc.

5 RICHARD J. GILBERT, Professor of Economics, University of
6 California, Berkeley

7 MARK A. LEMLEY, William H. Neukom Professor of Law, Stanford
8 Law School

9 VINCE O'BRIEN, Managing Partner, OSKR, LLC

10 WILLIAM C. ROOKLIDGE, Partner, Howrey LLP

11 JOHN W. SCHLICHER, Attorney, Lafayette, California

12 P. MARTIN SIMPSON, JR., Managing Counsel - Business and Land
13 Use, Office of General Counsel, University of California

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P R O C E E D I N G S

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1 MS. MICHEL: If you'll take your seats we'll get
2 started.

3 All right. Thank you. We are going to start the
4 last panel of the last day of this series of hearings for
5 the FTC's Project on the Evolving IP Marketplace. We'll be
6 talking about remedies, including damages and reasonable-
7 royalty calculations, so we're hoping to go out with a bang.
8 I think this will be an interesting panel. We have a lot of
9 ground to cover.

10 So, my name is Suzanne Michel, I'm Assistant
11 Director for Policy at the FTC, and I will turn it over to
12 Bill to introduce our panelists.

13 MR. ADKINSON: Hi. My name is Bill Adkinson. I'm
14 an attorney in the Office of Policy in the Office of General
15 Counsel at the FTC.

16 This panel is going to discuss damage awards, the
17 current standards governing patent damages, and their impact
18 on patent value and innovation. We'll look at damage
19 calculations and the evidence used in calculating damages,
20 particularly in the context of reasonable-royalty
21 determinations. We'll also look at permanent injunctions
22 after the eBay case and the doctrine of willful
23 infringement.

1 We've got a really great panel for today's last
2 panel, and I tried to figure out a way to do them justice
3 and keep this short enough, and failed. So I'm just going
4 to give you a name, rank, and serial number.

5 Yar Chaikovsky is a partner at Sonnenschein Nath
6 and Rosenthal;

7 Mary Doyle is a Senior Vice President and General
8 Counsel at Palm;

9 Rich Gilbert is Professor of Economics here at
10 Berkeley;

11 Mark Lemley is William H. Neukom Professor of Law
12 at Stanford Law School;

13 Vince O'Brien is Managing Partner at OSKR, here in
14 the Berkeley area;

15 Bill Rooklidge is a partner at Howrey;

16 John Schlicher is an attorney in Lafayette,
17 California;

18 And Marty Simpson is Managing Counsel, Business
19 and Land Use, Office of General Counsel, at the University
20 of California.

21 MS. MICHEL: All right. I'd like to start out
22 with a broad general question that would give the panelists
23 to give a little background on their perspective on these

1 issues by asking you: Why is it important that we get the
2 legal rules governing damages right. Why were you -- and
3 this probably goes to also: Why does it matter? Why were
4 you willing to take time out of your busy schedules and come
5 here today?

6 If panelists would like to respond throughout the
7 day, you can turn up your table tents, and we'll call on
8 you, and we'll move our way around the table.

9 Rich.

10 DR. GILBERT: Well, Suzanne, it's really not an
11 easy question because you have to ask what is -- what's
12 right first and then you have to ask, well, do we want to
13 get it right.

14 In terms of what's right, ideally or at least
15 theoretically you would like to choose a reward that
16 provides incentives for the right amount of investment in
17 research and development. So you would like to align the
18 rewards to call forth the right amount of R and D. That
19 could imply more than the incremental value of the patent or
20 less than the incremental value of the patent. And it
21 depends on the opportunities and technology for research and
22 development, so it's likely to differ from industry to
23 industry.

1 So getting patent rewards exactly right is very
2 complicated, very industry-specific. I'm not sure it's
3 really the objective that we want to shoot for in patent
4 policy.

5 And other issue which is -- well, a couple of
6 issues of course is that reward to one innovation can be a
7 cost to a second innovation, to the extent that innovations
8 build on each other.

9 And another issue that we don't think about much
10 but I think we should think about is how do rewards affect
11 incentives for conduct that we might think is pro
12 competitive, like licensing and like forming and holding
13 together patent pools, which can be very much affected by
14 the type of rewards to individual patent suits.

15 MS. MICHEL: Thank you.

16 Mary.

17 MS. DOYLE: My perspective is very much born,
18 Suzanne, of the work that I do as a general counsel at Palm.
19 And so I am focused more on what's wrong than what's right.
20 And I think these statistics might illustrate best my
21 experience and what I likely think about the subject of
22 damages in patent cases.

23 Currently Palm has 17 cases pending against it and

1 all but two of those cases have been brought by
2 nonpracticing entities. The vast majority of those cases
3 have been brought in 2008 and 2009, with a few hangers on
4 from earlier years.

5 And those 17 cases compare quite unfavorably, from
6 my point of view, to the 30 that I understand Chip Lutton
7 described as the patent caseload pending against Apple, we
8 have more than half that number, obviously, and we are 1/32
9 of their size.

10 The other statistic I would like to share with you
11 is our total expense on patent litigation over the last --
12 since 2000. We do have a case that was filed against us in
13 1997 by Xerox -- it's widely reported -- which we settled
14 after 2000 for 22.5 million. That particular case skews the
15 results. So if you want to add the data in for your own
16 purposes, certainly do. That was settled for 22.5 million,
17 and the fees involved in that case over the course of seven
18 years of litigation, three trips to the appellate courts and
19 no trial, was \$7 million.

20 Without counting that case, of the cases filed
21 against Palm, there are 21 since 2000, the total fees
22 expended other than I said Xerox, in the Xerox case, were
23 \$21.6 million and the total settlements were \$6.8 million.

1 So we spent more than three times as much, as you can see,
2 on defending cases, which now you understand why I'd say
3 they're worthless, the median settlement: \$250,000. And by
4 that I mean there were about ten cases settled for less than
5 that and ten for more.

6 But the highest number in that list and the only
7 one in the millions range is a \$2.9 million figure that was
8 paid with respect to a case many years ago, before we got
9 smart about these things.

10 So what's wrong in my view is that Palm, which is
11 a little company, barely a billion dollars in revenue at the
12 present time, has over the last five or six years, spent \$21
13 million on defending this litigation. It's relatively
14 unmeritworthy. In every case we spent, with one exception,
15 we spent less to settle than we spent litigating. And we
16 have nothing to show for it other than licenses to patents
17 that we don't think were implicated by our products in the
18 first place.

19 So you can imagine what my perspective would be
20 then on the damages issue.

21 MS. MICHEL: So your concern then is that if the
22 legal rules over reward or grant damage awards that are too
23 high, it just encourages litigation?

1 MS. DOYLE: It encourages what I would consider
2 opportunistic litigation that has little relation to the
3 value of a patent, its patentworthiness, its validity, let
4 alone whether or not it's infringed.

5 MS. MICHEL: All right. John.

6 MR. SCHLICHER: I want to repeat something Rich
7 said which I think is very important: Remedies for patent
8 infringement depend on what you're trying to accomplish. My
9 view, I think I share with Rich, is that the purpose of
10 granting patents is to encourage companies to do R and D
11 projects that they would likely not undertake if they did
12 not have patent rights.

13 The purpose is not to induce people to disclose
14 inventions that they would have made with or without
15 patents. The incentives that the rights will create
16 obviously depend on the remedies. In my view an injunction
17 is and always has been and should be the preferred remedy.
18 The reason is that an injunction, unlike a damage remedy,
19 forces people who know the most about the technology and the
20 business to attach a price to an invention based on economic
21 reality. It also prevents activities, namely infringement,
22 that distort the activities of patent owners and the
23 licensees while they're exploiting inventions. Distortions

1 that will have longlasting effect that damages will never
2 remedy.

3 The third main point I think for me at least is
4 that the patent system works only if people make agreements
5 regarding these rights. It doesn't work to the extent that
6 the courts have to make decisions about these rights or
7 decide who uses what invention at what time and how much
8 they pay for it.

9 To the extent that the system relies on
10 agreements, patent owners and potential users of invention
11 can make agreements only if they know how the courts are
12 going to behave if they don't make an agreement. And that
13 means patent owners have to know the likelihood that if they
14 win they will get an injunction and the approximate amount
15 of damages they'll get if they win. Potential patent
16 infringers and potential licensees have to know the same
17 thing.

18 If the law is such that you cannot -- that those
19 groups of people can't predict in advance what will happen
20 to them if they go to court, then the law on remedies is
21 defeating the very agreements on which the whole system
22 relies. And my view is that current damage rules and rules
23 on granting injunctions in patent cases fail that test

1 fairly miserably.

2 MS. MICHEL: Thank you.

3 Marty.

4 MR. SIMPSON: The University of California is an
5 inventing, nonpracticing. As an outgrow of research we have
6 inventions. One of the things we're doing in our mission of
7 teaching research and public service is trying to get this
8 technology out so the public can get the benefit of the
9 research.

10 To do that you have a patent as a tool. If the
11 patent is not an effective tool, then you inhibit that
12 ability to get it out and used. You come back to
13 predictability. That was mentioned earlier. And you come
14 back to Professor Gilbert's statement earlier.

15 Two-thirds of our cases are licensed to small
16 business in a given five-year period. Those small
17 businesses need to be able to get funding. There has to be
18 predictability in the system so that they can go get that
19 funding in order to take the risk to try the new technology.
20 If there's not enough predictability in what a patent means,
21 whether it's damages or injunction, then what happens is
22 that they don't get funded and that technology doesn't get a
23 chance. That's where our concerns are.

1 MS. MICHEL: Okay. Thank you.

2 Mark, and also if anyone would like to address the
3 problems of both over compensation and under compensation,
4 that would be interesting.

5 MR. LEMLEY: Sure. Yeah, look, I mean I think the
6 important thing to keep in mind is patents are government
7 interventions in the marketplace. All right, they are
8 government changes to what would otherwise have happened.
9 They are government interventions in a good -- for a good
10 purpose and I think they are desirable, right. But what
11 that means is that, like any other government intervention
12 in the marketplace, it's going to distort what would
13 otherwise be a free and competitive market. And if you get
14 the numbers wrong, if you grant patents to the wrong people
15 or don't grant patents to the right people, or if you grant
16 remedies for infringement of patents that are too high or
17 too low, you end up distorting economic behavior, all right.

18 Right. So I mean one of the concerns, clearly as
19 Rich and Marty say, is predictability of outcomes, and I
20 agree with that. But we could have predictability of
21 damages outcomes quite easily, right. We could say
22 everybody gets a million dollars, but that's absurd, right?
23 Nobody would even contemplate such a system. The reason we

1 don't contemplate such a system is that it does actually
2 matter that we calibrate the patent damages rules to a
3 normative baseline that's designed to achieve the goals Rich
4 is talking about, right, to try to improve research and
5 development incentives.

6 I mean it seems to me that we currently don't --
7 we seem even now to argue about what that normative baseline
8 is or ought to be. I mean it seems to me that the logical
9 starting point is what is the value that the patent
10 contributes to the world that we didn't have before, right,
11 and what's the incremental value of the -- of the world with
12 the invention versus the world without the invention, that
13 even that has turned out to be extraordinarily controversial
14 in congressional efforts to reform patent damages. But
15 we've got to have, I think, some measure of what it is we're
16 trying to achieve in order to figure out compensation,
17 because if we do over compensate, if we do under compensate,
18 we're distorting the free market.

19 MS. MICHEL: Okay. Vine.

20 MR. O'BRIEN: Yes. I mean in the broadest sense
21 what you're really trying to do is minimize enforcement
22 costs while maximizing the preferred behavior. And I'm
23 talking about compensation damages. There's also deterrents

1 that go into that equation as well. And compensation really
2 goes to what people would often call fairness. You know:
3 I've been harmed, I deserve to be compensated for that.

4 But if you get it wrong, if you get damages too
5 high you have excess of litigation and you have licensing at
6 excessive rates. And you probably have less innovation,
7 especially improvements on patented items. Because if you
8 get close to a patent you're likely to be sued and get
9 bitten, so you'll stay away from those.

10 On the other hand, if you're under compensated you
11 get investment in nonproductive activities. You probably
12 would get more emphasis on trade secrets, onerous contracts
13 with employees. At the extreme you get the mafia to help
14 you enforce your intellectual property rights. It sounds
15 funny, but that's what's happening in countries like Russia.
16 These people serve an economic function. And if you get it
17 wrong, this is what happens.

18 And I come at it from the standpoint, well, when
19 it comes to compensation in patents your goal really ought
20 to be able to mimic the marketplace. To measure what would
21 be the incremental value in the marketplace of this
22 technology. And it's interesting, because as Mark points
23 out that's controversial. And the fact is you often get a

1 debate going on for hours where that's not even mentioned
2 and it's quite shocking. But, anyway, that to me is why you
3 need to get this right.

4 MS. MICHEL: Okay. Oh, yeah, Rich.

5 DR. GILBERT: Can we circle around a little bit on
6 this. I think what Vince said is something I would agree
7 with, although not because it's the right answer. I think
8 what --

9 (Laughter.)

10 DR. GILBERT: Mark said that what we want to do is
11 have a patent system that compares the world with the patent
12 to the world without the patent and moves us in the right
13 direction. And that's not necessarily the same as giving a
14 reward equal to the incremental value of the patent. I mean
15 you could have a patent where everybody knows it's worth a
16 million dollars. There's just no -- there aren't many that
17 are that clear, but you could have one, let's just suppose,
18 everyone agrees it's worth a million dollars. But it might
19 be for a technology that's going to get invented no matter
20 what, that doesn't need a million dollars to promote
21 research and development. And you could ask the question
22 why are we then rewarding it with a million dollars if it's
23 not going to actually produce any research and development.

1 I, for one, think that a reasonable starting point
2 is to say: Let's figure out what the incremental value of
3 the invention is and try to steer patent rewards in that
4 direction. It's a good starting point. It's not
5 necessarily the right answer, but it's I think better than
6 where we are now, where you often get rewards that are
7 unrelated to the incremental value of the patent.

8 MS. MICHEL: Well, let's lay down this groundwork.
9 Mark talked about the measure of what we're trying to
10 achieve. I want to start with the words of the statute, at
11 least as it's currently formulated. And, in fact, how I
12 think it's even in some of the proposed changes, which is
13 the damages should be adequate to compensate the patentee.
14 And that has sometimes been discussed in the framework of
15 putting the patentee in a position he would have been but
16 for the infringement.

17 Is that a starting basis that makes sense?

18 Mark.

19 MR. LEMLEY: So, yes, and in the vast majority of
20 cases it's also going to be the ending basis that makes
21 sense. So I mean the alternative -- patent law, unlike
22 other areas of intellectual property law, doesn't involve
23 disgorgement of defendant's profits, it doesn't involve

1 measures with the exception of willful infringement designed
2 to punish defendants. And there's a good reason for that.

3 The reason for that is that patent law, unlike
4 other areas of intellectual property, doesn't punish people
5 who steal things, or at least it doesn't only punish people
6 who steal things. In fact, Chris Cotropia and I have
7 studied the question of whether the defendants in actual
8 litigated patent cases are accused of actually copying the
9 technology from the patent or the patent owner, or whether
10 they were in fact independent inventors. And what we find
11 is that while there are major industry-specific differences,
12 the actual incidences of even allegations of copying is very
13 small, it's under ten percent, and that in the industries
14 that seem to spark the most damages concerns, the IT
15 industries, it's on the order of two or three percent.

16 So it doesn't make sense, I think, to talk of
17 punishing people who turn out in almost every case to be
18 independently developing technology on their own or having
19 made the mistake of independently developing the technology
20 that someone else patented.

21 Now I think there are cases in which there really
22 is theft of an idea. In those cases probably punishment is
23 an appropriate because we are -- we don't want, I think John

1 said earlier, right, to just displace the contract and
2 licensing system with a court system, right. We prefer
3 people who know that they are taking someone else's
4 technology to go and do a deal firsthand. But it's
5 important to keep in mind that that's a pretty rare part, a
6 pretty small part of modern patent litigation.

7 MS. MICHEL: Okay. John.

8 MR. SCHLICHER: Just to respond quickly to what I
9 understood Rich to say, Rich is proposing -- well, let me
10 back up.

11 I think we have had a hard enough time creating a
12 set of rules under which judges and juries award damages
13 that approximate the economic value of the invention in the
14 particular case. If we ask them in addition to make a
15 judgment about the extent to which that award would create
16 proper R and D incentives in that industry given the
17 research opportunities that will exist in the future and the
18 costs of risk in undertaking them, we're asking them to do
19 something that they are simply incapable of doing. And,
20 while I admire the test, --

21 DR. GILBERT: That wasn't my proposal.

22 MR. SCHLICHER: Okay. Then I misunderstood it.

23 The short answer is: The patent in the case you

1 posited should be invalid. If the invention would have been
2 made anyway, that there should have been -- there should be
3 no patent.

4 To the more general point, the question -- the
5 words "Put the patent owner in the financial position it
6 would have been but for the infringement" come out of the *RO*
7 case. That's a Supreme Court case in the 1960s. It wasn't
8 a damage decision, so you can't tell what they meant, if
9 they meant anything.

10 My answer is that damages never put a patent owner
11 in a position it would have been but for the infringement.
12 Only injunctions do that. During the period of
13 infringement, the price at which products are sold are
14 distorted. The people that sell them are distorted. The
15 investments that are made by patent owners and licensees to
16 enhance the values of the inventions are distorted. Damages
17 paid by an infringer to a patent owner can never undo that
18 damage.

19 To the extent that you're talking merely about the
20 monetary effects on those two people, the answer of course
21 depends on how it's applied, and that's the \$64 question.
22 If you ask the question: What is the amount of money the
23 patent owner would have made if the infringer didn't

1 infringe and vanished from the face of the Earth, you get
2 one number: But for this person doing this activity, how
3 much would the patent owner have made.

4 For most inventions, in my mind, that's way, way
5 too much, because the question's too simplistic. The
6 question ought to be: How much money would the patent owner
7 have made if it used the invention or something it had
8 available to it that was better and other people used the
9 next best thing available to them, including the infringer,
10 and the amount of money the patent owner would have made if
11 everybody infringed. It seems to me that that is the
12 difference, that is a test which will allow you to put in
13 the hands -- or the pockets of the patent owner in an amount
14 of money that approximates the economic value of the
15 infringement.

16 MS. MICHEL: So Rich, and then Bill.

17 DR. GILBERT: Well, the question is should patent
18 rewards make the patentee whole for infringement.

19 MS. MICHEL: That's right.

20 DR. GILBERT: Well, at one level, of course yes.
21 And then we have to worry about deterrents and all of that.

22 MS. MICHEL: Right.

23 DR. GILBERT: But particularly for reasonable

1 royalties, there's a fundamental problem with this analysis
2 in that it's all circular. If I ask what is a reasonable
3 royalty, well, what's a reasonable royalty is a value such
4 that if I turn it down and go to court, the court will say
5 that's what I owe you. Well, what is the court going to say
6 I owe you, it's going to be the reasonable royalty that you
7 calculated in the marketplace. So I mean this can wind up
8 anywhere.

9 You can have a situation where a high damages
10 result in high royalties, which then reinforce high damages.
11 Or you can have a situation where a low royalty or low
12 damages result in low royalties which then reflect low
13 damages in court.

14 The only way you can get around this is to
15 actually look at the underlying value of the patent and
16 that's a more complicated question.

17 MS. MICHEL: All right. We will go into that
18 complicated question in just a couple of minutes.

19 And, Bill, any comments on -- what's our
20 touchstone here, what are we trying to achieve with damages?

21 MR. ROOKLIDGE: Well, that's the flipside of the
22 question that Mary started this whole session with, is
23 what's wrong. And from her perspective what was wrong is

1 that her company is spending too much money defending what
2 she described as opportunistic litigation.

3 I agree that that is wrong, but I don't agree that
4 that is the problem. I believe that that is a symptom. And
5 I think everyone here has expressed a different perspective,
6 as if we were the seven visually-challenged individuals and
7 the elephant. I tend to look at it from where from my
8 perspective the rubber the meets the road. Mary's
9 perspective is the rubber meets the road on her budget. My
10 perspective is the rubber meets the road in litigation, the
11 results of which are what are causing this behavior.

12 So when I ask what's wrong, I recently sat down
13 with my partner, Martha Gooding, and we undertook to study a
14 couple of things. One, we undertook to study review mock
15 jury trials in patent damages cases. And we watched a lot
16 of them.

17 And then we undertook to sit down and read the
18 Federal Circuit decisions in this area and we found some
19 really surprising things. And one of the things that we
20 found was it's not really the law that has a problem, that
21 very often what we're seeing in these jury deliberations is
22 the jurors going off the rails for reasons that are wholly
23 unrelated to the law.

1 And the answer there is for trial lawyers to
2 understand how jurors are likely to run off the rails in
3 patent infringement cases and to use their skills to bring
4 them back and to keep them on track. So I see the problem
5 from a very different perspective.

6 Now John looked at this and said the current
7 rules, he said, are failing miserably. I don't believe,
8 frankly, that that is necessarily the case, at least I
9 haven't seen that demonstrated from my reading of all the
10 Federal Circuit cases. We've got to take a look at the
11 trends. And when you sit down and look at the trends, the
12 early Federal Circuit cases were very problematic on
13 damages. The court was very loose on that kind of thing,
14 but it's gotten a lot better. And Judge Rader is leading
15 the charge to make it a lot better.

16 There is a common perception that was expressed in
17 the House Report on the 2007 Patent Reform Act that damage
18 awards are seldom overturned on appeal. That is just not
19 the case. If you read the reported decisions, if you read
20 the nonprecedential decisions, you'll see that the Federal
21 Circuit has shown a lot of willingness to overturn damage
22 awards, even damage awards that result from jury verdicts.
23 The --

1 MS. MICHEL: Bill, in your reading of those cases
2 do you see the court striving to fulfill this concept of
3 reasonable compensation to the patentee and defining that as
4 putting the patentee in the position he would have been but
5 for the infringement or are they trying to do more, create
6 deterrent, something else?

7 MR. ROOKLIDGE: I don't think they're trying to
8 create deterrents. I think the Federal Circuit has hewed
9 very closely to the line that deterrence is what enhance
10 damages and attorney fees are all about. And what I've been
11 focusing on are simply compensatory damages.

12 And the Federal Circuit seems to have been very
13 clear to the extent that the arguments of the lawyers, the
14 arguments of the parties in the case before it, allow the
15 court to do that. I think the court's been very good about
16 that. And what it's been trying to do is make sure that
17 there is a basis in the record before the trial court to
18 award those compensatory damages.

19 MS. MICHEL: Certainly calculated compensatory
20 damages is an extremely difficult concept, and I want to,
21 after laying this groundwork, dive into the nitty gritty of
22 how to do that.

23 Yar.

1 MR. CHAIKOVSKY: So I guess my comment was going
2 to be Bill's point, is he exactly pointed out that it takes
3 the Federal Circuit to get it right with respect to
4 compensatory damages. And so we have a system where whether
5 you follow the *Georgia-Pacific* factors or what-have-you, how
6 is a jury supposed to get it right? I mean we don't have
7 juries getting it right. They have factors laid out in
8 front of them that, quite frankly, they don't follow or they
9 don't pay attention to. And they may make their
10 determination based on some other aspect of the case. And I
11 don't think they get enough guidance, quite frankly, from
12 the lawyers.

13 And so right now we have a system that if you go
14 to trial, you don't know what the result will be. And,
15 going to Mary's point earlier, even prior to that, how do we
16 know how to value this invention? I mean what value do we
17 know to provide? And I don't think currently we have that
18 guidance. And, quite frankly, even what's in the patent
19 reform, I don't think that alone gets us that guidance.

20 Now do I have a perfect mathematical formula to
21 get us there? I don't. I don't have that solution. And
22 I'd love it. I'd love to have it. I mean I'd love to have
23 it, but we don't have that mathematical solution. And the

1 realities are that, you know, anything we come up with,
2 whether it's what we have today or whether it's what we have
3 in the reform that exists, we're going to be litigating it
4 no matter what. And it's going to be obtuse and the
5 problems that Mary has are going to continue.

6 MS. MICHEL: Uh-oh. Well, let's hope not. So I'm
7 hearing pretty broad consensus then that the point of
8 damages is to be compensatory, not punitive. No
9 disagreements there.

10 Vince.

11 MR. O'BRIEN: Well, the only comment I had is, you
12 know, I liked the *Arrow* wording.

13 MS. MICHEL: Okay.

14 MR. O'BRIEN: The only trouble is is these cases
15 where the judge or the jury or even the CFC is way off base,
16 start out quoting *Arrow*, so it isn't helpful to us. I mean
17 it's what we ought to be doing, but clearly it isn't giving
18 guidance to any of the decisionmakers.

19 The other thing is I would agree with the prior
20 commentators. There seems to be a cultural bias toward high
21 damage awards in infringement cases. I think the average
22 juror -- it's been my -- you know, from testifying and
23 seeing the outcome, the average juror I think thinks that

1 you have a patent, you get rich, and that infringers are
2 very nasty people. When, in fact, as we know there's a lot
3 of what I would call innocent infringement going on.

4 So when I'm working on the defendant's side of a
5 case and the defendant likely infringed, I know I have a
6 tough road to hoe. And I just pray that the plaintiff's
7 expert gets greedy, so I can destroy his or her credibility,
8 because it's hard to get the jury away from a big number
9 once they decide infringement.

10 MS. MICHEL: Okay. Mary, and then we'll dive into
11 reasonable-royalty nitty-gritties.

12 MS. DOYLE: Well, I suspect that I was going to go
13 there anyway. The issue for me, and I find a lot of the
14 remarks made actually consistent in many ways, I think we
15 agree on one other thing which is that presently the rules
16 do not provide any kind of certainty. It would provide it
17 with injunctions. I would say to you that that would
18 distort the marketplace much, much more than anything that's
19 happening today and, in fact, before eBay it did, in my --
20 again, in my experience.

21 But for me the problem is looking at a given
22 patent and in the real world convincing the holder of that
23 patent that at least in the case of my products, which have

1 been referred to as complex products, that as everyone here
2 knows, a Palm incorporates many, many different components,
3 800 or 1,000, and certainly implicates in the view of patent
4 holders, hundreds if not thousands of patents, most of which
5 would be very hard for us to identify from the start.

6 But to ascribe to each patent holder who would
7 claim that their patent implicates our product or to arrive
8 at an agreement with that person about what they are
9 entitled to, each and every one of them thinks that they're
10 entitled to two to five percent of the entire value of this
11 product. We have in that set of circumstances an impossible
12 mathematical problem. Certainly there will be no investment
13 in this product or in the innovation that led to it if that
14 kind of math is going to rule the day.

15 MS. MICHEL: All right. So we have some agreement
16 then that our goal here is compensation, but that it's
17 difficult to figure out how to do that. So we wanted to
18 start out by talking about reasonable royalties and how
19 that's done.

20 Any thoughts on whether the hypothetical
21 negotiation is the right framework to be thinking about what
22 a reasonable-royalty award ought to be? Rich.

23 DR. GILBERT: Well, I think Mary gave a very good

1 example which says that a hypothetical negotiation is not
2 generally going to get you to the right place.

3 MS. MICHEL: Is that because there's a problem in
4 the fundamental concept or is the problem the way that it's
5 working out in court?

6 DR. GILBERT: There is a fundamental problem about
7 the way the market works for complementary innovations, at
8 least. The complex product that Mary was talking about. To
9 give you an example, suppose you have two licensors --
10 suppose there's a product that requires a hundred patents.
11 And there's one licensor who has 99 patents and another
12 licensor has one patent. And they both negotiate over how
13 much they should get.

14 Well, under a plain theory of bargaining, if all
15 of those patents are essential the person with one patent
16 has as much of a claim as the person with 99 patents. It
17 really makes no sense. But that is what the market is going
18 to do. And that also creates a centrifical, centripical,
19 whatever the right force is to get people to, in effect,
20 disburse their patents and have more people negotiating more
21 patent rights, as is what happened with the *Alcatel-Lucent*
22 case, where they spun off a separate negotiator for three
23 patents and then brought a case with an argument that their

1 three mp3 patents should get a very large share, a very
2 significant share of the value of a computer.

3 So we cannot really rely on market negotiations to
4 set the standard for what is the right determination of
5 value, at least for complex products.

6 MS. DOYLE: May I ask a question about that?

7 MS. MICHEL: Sure.

8 MS. DOYLE: Why is that true, when a device like
9 this that has hundreds of components and is the result of
10 literally hundreds of negotiations to get the right price
11 assigned to each and every component, all of which are
12 necessary to the product?

13 MS. MICHEL: Mark and then Yar.

14 MR. LEMLEY: Let me start by just a brief answer
15 to Mary's question. I think the dynamic that Rich is
16 identifying works because of the threat of injunctive
17 relief, right. So if the owner of any one of those patents
18 can shut down the whole thing, right, then they do have just
19 as much power and, therefore, in some abstract that's right
20 --

21 DR. GILBERT: Yes, exactly. That's a necessary --

22 MR. LEMLEY: And so that's part of the reason why
23 injunctions in these cases are so problematic, so --

1 MS. DOYLE: But not why negotiations shouldn't
2 work.

3 MR. LEMLEY: Well, no, but -- right, well, though
4 the problem is -- right now we're back to Rich's circularity
5 point, right. So what are people willing to accept in
6 negotiations? They're willing to accept in negotiations
7 something that's a function of what they could get in court
8 if they didn't get it at the table, right. So if we gave
9 them in court the power to shut down the whole product, then
10 they can get a pretty substantial amount of money in
11 negotiations.

12 MS. DOYLE: That's true, but if you assign the
13 value to the actual component in question, you may then get
14 a much more reasonable result --

15 MR. LEMLEY: Well, and I think that's right, but I
16 think -- right. And now I think we're moving -- and I think
17 that's a move away from a hypothetical negotiation, at least
18 as it's conceived right now. So the problems I have I think
19 Rich has identified the theoretical problems with the
20 hypothetical negotiations.

21 I just wanted to add a couple of practical
22 problems, right, which are you're -- to talk about a
23 negotiation between parties who by hypothesis not only

1 didn't come to terms but just spent \$5 million a side in
2 legal fees to take the case all the way to trial, rather
3 than come to terms, right. There's probably a reason for
4 that, right.

5 There may well be a case -- maybe the reason is,
6 you know, idiosyncrasy, right, particular rationality by a
7 plaintiff or a defendant. But it may also be the case not
8 all deals would get made in a world without the lawsuit as a
9 backstop, right. I mean some patentees wouldn't license
10 their patents for anything that a patent licensee is willing
11 to pay. Those deals --

12 MS. MICHEL: Well, yeah, but why? I mean we got
13 assume economically-rational actors in this hypothetical.

14 MR. LEMLEY: Oh, well, so here's -- I mean so the
15 short example -- answer to why is: If I'm in the
16 marketplace -- let's say I'm a pharmaceutical company. I
17 will make more money by selling the product at a monopoly
18 price than I will make by licensing it to a generic
19 competitor.

20 MS. MICHEL: So I should get lost profits, then we
21 shouldn't be having a reasonable-royalty calculation, right?

22 MR. LEMLEY: I agree. I -- I -- yeah, --

23 MS. MICHEL: Okay.

1 MR. LEMLEY: All right. So that -- so I don't
2 think it works in that circumstance.

3 The other problem is I think we need -- because we
4 need to assume that the patent is valid and infringed, which
5 is something that no one in fact does assume in any ex ante
6 licensing negotiation, we've introduced an artificiality to
7 the negotiation that's really hard to mimic.

8 MS. MICHEL: All right. Yeah, well, Yar, and
9 we'll come back to that.

10 MR. CHAIKOVSKY: I think the only thing I'd add to
11 that and it's consistent with what Mark just added: I mean
12 how do you get to this hypothetical negotiation when you
13 could take the *Alcatel-Lucent Microsoft* case when Alcatel-
14 Lucent is nowhere in the business of what Microsoft's in, so
15 how is Microsoft supposed to sit there, irrespective of what
16 factors you use, and take a look at them and go: What
17 should I reasonably pay them in a negotiation and what's
18 reasonable. You know, yes, they could look at the previous
19 frown off licenses and go: Well, maybe that was reasonable.
20 But, sure, that wasn't reasonable to Alcatel-Lucent. And I
21 can tell you there are other similar instances.

22 I was doing a negotiation this morning where we
23 were trying to avoid litigation, where it's not the core

1 line of business of the patentee that's asserting the
2 patents. And how do I value those patents when they say
3 they've got patents in another line of business. They're
4 not in the line of business of, let's say Palm, for example,
5 they're in some other line of business. It's not a
6 nonpracticing entity. It's a going concern. And all of a
7 sudden they reach out and they say: Well, by the way, you
8 know what, we do have patents on your product.

9 How do I know how to value that? I don't know how
10 to value that because all I know how to value that is the
11 cost of litigation. You know, and I want to avoid
12 litigation, and that's going to be a significant driver.

13 If I look at those numbers that Mary cited, I mean
14 21.6 million in legal fees and \$6.8 million to settle cases,
15 I mean that has nothing to do -- I mean she's driving --
16 it's all legal fees. I mean the cost of her for the
17 settlements here are kind of ridiculous, I mean.

18 MS. MICHEL: Okay. But if we place the
19 hypothetical negotiation at some other point in time, you're
20 talking about a time when the parties are facing litigation
21 and have sunk cost, right. If we place the hypothetical
22 negotiation at a point during the design stage for the
23 production and why -- would it be the case in that sense

1 where the accused infringer then is only willing to pay in
2 relationship to the cost of an alternative? Can we deal
3 with the problem you're talking about by placing the
4 hypothetical negotiation at an appropriate place in time in
5 the past?

6 MR. CHAIKOVSKY: Perhaps there's an appropriate
7 place, but I would have a hard time saying where that
8 appropriate place is. Right now, again, the negotiation I
9 had this morning, we're trying to avoid -- I mean if you're
10 in negotiation, right, you're hoping to not get into
11 litigation. You're hoping that the person, let's say the
12 net plaintiff that actually has more in the way of patent
13 weight, doesn't bring a lawsuit. And you are attempting to
14 avoid that lawsuit.

15 Well, in that situation, again in any situation
16 where there's a license negotiation, that there is going to
17 be that component that you can get sued on these patents.
18 And so you necessarily have to be thinking and avoiding that
19 and that cost.

20 In the situation I was describing, in particular
21 when the person is a nonpracticing entity in a certain
22 field, but on the other hand is a significant entity with
23 significant funds in the area of its core business, what am

1 I to do in that area and what am I to do let alone and
2 hypothetical negotiation situation, then if I get into
3 litigation, any test that I have seen proposed doesn't
4 necessarily ascribe to me how do I value that.

5 MS. MICHEL: Okay.

6 MR. CHAIKOVSKY: How do I value that technology.

7 MR. ADKINSON: Just to interject one further
8 question that's broader, is whether there's ways to impose
9 additional structure on this amorphous hypothetical
10 negotiation, beyond just particularly the time at which it's
11 set, that might break Rich's circularity problem by having
12 more of an objective basis and provide some way of limiting
13 damages.

14 Perhaps something like -- John had mentioned
15 something about looking at the value versus the
16 noninfringing alternative, I think, as one measure. Let me
17 throw that into the equation.

18 MR. COHEN: So John's had his tent up. Let's go
19 to John, and you've thought about this.

20 MR. SCHLICHER: Bill said I think damage law fails
21 miserably. I think we do a reasonably good job on lost
22 profits, which is where the *RO* words are invoked. I don't
23 think we do a good job in other areas in the sense that you

1 can't tell going in what the award is likely to be. There
2 is simply too wide a range of possible results that the law
3 permits.

4 The best I -- I, by the way, do not like the
5 hypothetical negotiation rule, if that is the exclusive way
6 to determine damages. It doesn't work at all in situations
7 where the patent owner wouldn't have granted this personal
8 license because the person owner could make more money using
9 the invention than the infringer could, which is what
10 happened in *Georgia-Pacific* which is why that's not what the
11 district court or the court of appeals actually did in
12 *Georgia-Pacific*. All the court of appeals did is note in
13 passing at the end: Oh, by the way, the award we've arrived
14 at in the other way happens to actually be what you might
15 have gotten through a hypothetical negotiations. Almost the
16 side light.

17 The same thing happens if there's another licensee
18 who is better placed.

19 My main problem with the hypothetical negotiation
20 rule is that it presupposes -- well, let me say it this way.
21 It asks about an amount of money people would have paid in
22 the future. That's what licenses do, and that's when people
23 talk about it.

1 For purposes of damages they ought to be based on
2 the economic value the invention had in the past. We know
3 what -- with know a lot about what happened, because we
4 ought to look backwards.

5 And to the extent the hypothetical negotiation
6 says: Let's look at what these people would have agreed to
7 pay in the future based on their best guess of how the
8 economics are going to work out.

9 It seems silly to me to rely on that when we know
10 actually how things worked out. So I have a whole bunch of
11 problems with the hypothetical negotiation rule. That being
12 the one.

13 The best I can do to impose a better rule on it is
14 to do what I think the Supreme Court said to do when it
15 created the rule in 1915 and that is: Try to identify an
16 amount of money, if it's going to be do the value of the
17 invention had when used by an infringer, try to identify an
18 amount of money that's the difference between the profits
19 using this invention allowed that person to get at, and the
20 profits that person could have gotten at if they used the
21 next best noninfringing thing available to them during that
22 period. And that amount of value may change during the
23 period. That's about the best I can do to try to impose

1 some other rule.

2 MS. MICHEL: Vince.

3 MR. O'BRIEN: Well, I think that I actually like
4 the hypothetical because I can't think of any other
5 construct that would help me get to a number, but there are
6 some things with it and it does have its limits. The
7 biggest one is the time of negotiation. And they obviously
8 picked the date of first infringement because it's an easy
9 time to determine.

10 But you end up in the pharmaceutical industry
11 where because of the safe harbor laws you're not infringing
12 until you've got an approved FDA product out on the
13 marketplace, so some with an embryonic technology comes in
14 and says: Oh, I want the 30-percent rates that you would
15 license at this level. And that does not make sense.

16 And then you get the holdout because people are
17 locked in to technology or they've had to have sunk costs.
18 I think if you take it back in then when the decision was
19 made, you'd get around a lot of these things. And because
20 of the book of wisdom you really get back in time when you
21 know what happened. And so you factor that in as well. So
22 I would say with that part of it would help out a lot if you
23 could do that.

1 MS. MICHEL: Well, would you think, Vince, that
2 the cost to the defendant of the closest-noninfringing
3 alternative might be brought into play in the hypothetical
4 negotiation as the maximum amount that an accused infringer
5 would pay?

6 MR. O'BRIEN: Well, it's not necessarily the
7 maximum, but it's a benchmark, because obviously there's
8 time, there's risk inherent in that that you would have
9 discussed at the time of the hypothetical.

10 Now one thing I want to make clear too is the next
11 best alternative isn't just a noninfringing way of providing
12 that feature. It could be just provided different mix of
13 features or cut your price or --

14 MS. MICHEL: Just not include the feature you
15 mean.

16 MR. O'BRIEN: Pardon?

17 MS. MICHEL: Just not include -- leave the feature
18 out.

19 MR. O'BRIEN: Leave the feature out all together
20 and maybe enhance your product some other way or, for that
21 --

22 MS. MICHEL: We could all live without the pop-up
23 calendar.

1 MR. LEMLEY: In the broadest instance, not even
2 make that investment and pick your next-best investment.

3 MS. MICHEL: Okay.

4 MR. LEMLEY: Can I say something to that?

5 MS. MICHEL: Yeah, mark.

6 MR. LEMLEY: So I think this is the least-worst of
7 the alternatives, right, so what John suggests and Vince is
8 talking about, the approach of the closest-available,
9 noninfringing alternative, that's a test that gets adopted,
10 interestingly, in lost profits in *Grain Processing*, but that
11 the Federal Circuit has not really moved into reasonable
12 royalties, which is where I think it actually could do its
13 most good.

14 I do want to note one limitation which makes life
15 a little more complex. The next-best, noninfringing
16 alternative, that is an alternative that does not infringe
17 this patent, may well infringe another patent. And then
18 you're in an interesting circumstance, right, because if we
19 really mean an alternative that doesn't infringe or even
20 arguably infringe any patent anywhere, well, that's going to
21 be almost nothing in the modern world. If we mean only if
22 we can prove that it really doesn't infringe anybody's
23 patent, then we're in collateral litigation over whether the

1 alternative really was not infringing.

2 I think what we mean is that in that circumstance
3 where what I had was a choice between two alternatives, both
4 of which turn out to be patented by different people, that I
5 wouldn't have paid a monopoly price because there were two
6 alternatives, right. There would have been bargaining that
7 reflected the fact that if your price was too high, I could
8 turn to this alternative. But the model starts to become
9 more complex because we can't just say: Here's the
10 difference, it's a three-percent difference in price and,
11 therefore, that's the number. It depends a little bit on
12 what the parties would have negotiated.

13 MS. MICHEL: Marty.

14 MR. SIMPSON: We've had the case where the closest
15 available alternative was covered by another patent of ours.

16 (Laughter.)

17 DR. GILBERT: Which means by definition you're
18 entirely free to go ahead.

19 MR. SIMPSON: Well, also I wanted to come back a
20 little bit on the time. We have had copyist. And,
21 essentially, what happens is that our small business
22 typically, or our licensee takes the big risk of a new
23 technology, proves it out, gets the market done, and then

1 what happens is somebody comes along and says: Oh, that's a
2 good idea, I will copy it because you're making money and
3 you're successful. And we have had people where we finally
4 get into a lawsuit with them and it turns out they were just
5 plain out and out copyist.

6 MS. MICHEL: Do you think the willful infringement
7 doctrine is insufficient to deal with that problem?

8 MR. SIMPSON: We have never seen a willfulness
9 award. Now with respect to how the suppositious negotiation
10 works, though, if this copyist has let all the high risk go
11 out of the new product development, so what they're doing is
12 they're just copying a product that's a proven product,
13 they're going to be paying a higher royalty in that
14 negotiation than our licensee, who started off, had to prove
15 the product to get it on the market and prove to people that
16 this was something that was worthwhile.

17 And in the medical industry it's even worse than
18 that because you not only have to start off with a new
19 product that they turn into something that actually can be
20 used commercially, what they also have to do is get it
21 accepted in the medical community, and that can be very hard
22 with as conservative as doctors can be, and you also have to
23 get the insurance industry realizing that it's something

1 that would be good for patients that they should reimburse
2 for. And that is a long process.

3 MS. MICHEL: I'll keep going around the table, but
4 I want to throw out another question. You know, feel free,
5 I don't want to stop any comments, but I will throw out
6 there into the mix. So in thinking about the hypothetical
7 negotiation or the reasonable-royalty calculation, how do we
8 avoid the nondeterrence problem, the 'Why should I put a
9 quarter in the parking meter if the fine's only a quarter
10 problem'? Is there a way to deal with the doctrine to
11 address that without becoming punitive?

12 And, also, any other comments you were planning to
13 make, John, on reasonable royalties.

14 I'll go to John next.

15 MR. SCHLICHER: I'm not sure I understand --

16 MS. MICHEL: Okay.

17 MR. SCHLICHER: -- the parking meter metaphor, so
18 I have no comment on it.

19 MS. MICHEL: Oh, well, then that won't be a
20 problem --

21 MR. SCHLICHER: The only thing I wanted to say is
22 that *Grain Processing*, where Frank Easterbrook, for purposes
23 of lost profits, did indeed do something really similar to

1 what I described. He also actually did the same thing in
2 doing the final award, although he didn't explain it that
3 way.

4 The award in that case was indeed reasonable-
5 royalty damages. Judge Easterbrook arrived at that amount
6 of money by comparing the cost to the infringer of making
7 the product the patented way and the somewhat larger cost,
8 the -- excuse me, the infringer, the somewhat larger cost
9 the infringer would have had if it had made the
10 noninfringing way, subtracted those two numbers, and that
11 was the damage award without one single, solitary word about
12 whether that would have been the result of a hypothetical
13 negotiation.

14 I don't mind if you call that difference-in-
15 profits test an aspect of hypothetical negotiation, because
16 it seems to me in the real world no person asked to license
17 a patent will pay more than that, subject to what I think of
18 as the sum-cost bargaining problem, which we ought to spend
19 some time on because I think it's enormous and difficult. I
20 mean I think Mary alluded to it in connection with
21 injunctions. I think it's pervasive, so I agree.

22 But I don't see any necessarily -- if you want to
23 say hypothetical negotiations, I don't mind. I simply think

1 that test allows you to focus better.

2 MS. MICHEL: All right. Bill.

3 MR. ROOKLIDGE: I don't think you are going to see
4 in today's economic environment somebody just willing to
5 plug the parking meter and say: Go ahead infringe. The
6 costs of infringement -- the costs of defending infringement
7 litigation is so high, particularly when you factor in the
8 costs of discovery, that nobody undertakes defensive patent
9 litigation for recreational purposes.

10 The other thing I wanted to point out was that
11 we've got to be careful not to lay down over rigid rules by
12 say, for example, that defining the value of the
13 infringement by comparing the infringing product to the
14 next-best alternative may very well work in the vast
15 majority of cases, but in some cases there may be alternate
16 evidence that's available. For example, evidence of what
17 the infringer's own contribution to that product was and
18 there may be an easy way to value that contribution that
19 would end up resulting at coming at it from a different
20 angle that would be a different way to do it. And we've got
21 to make sure, especially if we go into any kind of
22 legislation, that we don't unfairly tie the hands of the
23 parties and the courts in what they present to get to a

1 number that is reasonable as far as compensating for the
2 infringement.

3 MS. MICHEL: Mary.

4 MS. DOYLE: It seems to me that you don't want to
5 tie their hands, on the one hand; but on the other you want
6 certainty, because it's just the lack of certainty that has
7 got us in this mess as far as I'm concerned.

8 I can also -- I would like to comment on the
9 hypothetical negotiation in the context of standards, where
10 there -- John, there is no reasonable alternative, there's
11 only that one. So in the absence of a better-regulated
12 standard space where patents can't just be declared by the
13 holder as essential whether they are or are not. I think
14 this approach that you've been talking about doesn't quite
15 work.

16 MS. MICHEL: Could we move the timing back to the
17 standards-setting body decisionmaking, when there were
18 alternatives available?

19 Anybody got a comment on that?

20 MR. CHAIKOVSKY: I've got a comment there because

21 --

22 MS. MICHEL: Yeah.

23 MR. CHAIKOVSKY: -- the reality is in the current

1 world: No.

2 MS. MICHEL: Okay.

3 MR. CHAIKOVSKY: I mean you have too many
4 nonpracticing entities. I mean right now you've got Weiland
5 (phonetic), you've got PACid --

6 MS. MICHEL: I meant as a manner of law, that we
7 define the hypothetical negotiation to occur at a time when
8 the standard setting -- when there are still alternatives
9 available so we don't have that kind of lock-in problem.

10 MR. LEMLEY: And I think the answer's yes.

11 MS. MICHEL: Yes.

12 MR. LEMLEY: I mean I think actually you solve a
13 lot of the hold-up component of damages problems in multi-
14 component industries if you don't allow somebody to capture
15 value that's not the value intrinsic to their technology but
16 value that's the result of an irreversible investment made
17 after that technology was chosen.

18 DR. GILBERT: I think subject to Vince's comment,
19 though, that there might be risk and timing issues where you
20 don't -- where you do want to give a preference to the
21 patent owner for creating a fertile environment in which the
22 product can be developed and to get some share of that, I
23 think Marty's point on that was a valid point.

1 MS. MICHEL: And, Mary, I cut you off. I'm sorry
2 about that.

3 MS. DOYLE: That's all right. I'm enjoying the
4 rest of the conversation, so I'll chime back in when it's
5 important.

6 MR. CHAIKOVSKY: No, but if you add -- going back
7 to the hypothetical negotiation being the time, let's say,
8 prestandard as a matter of law, I mean again I guess I would
9 say Rich's comments, too, your potential of cutting off in
10 terms of what's the economic value of this when the
11 inventors came up with this, especially if you're talking
12 about solo inventors, they came up with something. And why
13 shouldn't they be entitled to the value of this if it
14 continues to grow and grow in value at a later point in
15 time?

16 MR. O'BRIEN: Well, it depends on whether it grows
17 --

18 MS. MICHEL: Yes.

19 MR. O'BRIEN: -- as a result of the standard or
20 because of the inherent value of the technology.

21 I would say one thing, if you do go back in time
22 before the standard, I think you still -- I mean and I've
23 actually testified that that's appropriate, so I'm not being

1 hypothetical here, I think you still have to take into
2 account the fact that it was chosen as the standard shows
3 some value, inherent value over the next-best technology and
4 you should factor that part in, no.

5 MS. MICHEL: All right. John.

6 MR. SCHLICHER: Suzanne, the reason I haven't sent
7 in my written comments on your notice is that I regard this
8 on-cost bargaining problem and the standard problem to be by
9 far the most difficult in this whole area: On injunctions,
10 big time; on damages, to a lesser but significant extent.

11 And I've never spoken out on that because I was
12 never sure I had anything useful to contribute or knew the
13 answer, but I'm probably going to do that. But the current
14 draft of my comments say that when there is an invention
15 that is a standard, however defined, de facto or real, and
16 because of -- for that reason and that reason only, the
17 infringer during the period of infringement could not have
18 switched to something else, even though back on day one,
19 before anybody built a product, it could have.

20 And what I would do in that situation is compare
21 the profits a company would make selling whatever product,
22 satisfy the standard, to the profits that company would have
23 made selling the next-best production that could have become

1 a standard way back on day one. That amount of money in a
2 lot of cases may be zero, --

3 MS. DOYLE: Zero, exactly.

4 MR. SCHLICHER: -- which to my mind is a perfectly
5 appropriate damage award in lots of those cases.

6 MS. MICHEL: Bill.

7 MR. ROOKLIDGE: Well, just as a practical matter,
8 the Federal Circuit has been dithering on that. And I think
9 it'd be more accurate to say \$1 would be perfectly accurate
10 under the law.

11 (Laughter.)

12 MR. ROOKLIDGE: Set -- adjusting the timing of
13 that decision is not going to change the fundamental problem
14 that both John and Mary have referred to, and that is the
15 uncertainty in the damage awards that come from a court
16 decision and the resulting effect of that on the
17 negotiation. That can only be done within the litigation
18 process, not by setting the timing.

19 MS. MICHEL: That's a good point, yeah.

20 Rich, did you have a comment?

21 DR. GILBERT: I think I do. If we're on this
22 issue of sunk costs, --

23 MS. MICHEL: Yeah.

1 DR. GILBERT: -- I mean the problem of
2 expectation, damages and expectations has come into many,
3 many damage situations, not just patents. And do you
4 measure damages at the time of the act or how do you
5 incorporate developments that have come since that time. I
6 think there's this Janice Joplin's yearbook example of if
7 you had a signed copy of Janice Joplin's yearbook and
8 somebody took it way back then, do you get the value of the
9 yearbook then or do you get the value of the yearbook now.

10 So it's not unique to intellectual property, but
11 of course the intellectual property does typically invoke
12 sunk costs and standardization much more. And there I think
13 I hear agreement among the panelists that the reward should
14 not incorporate sunk, irreversible investments that were
15 unrelated to the patent other than the fact that the patent
16 reads on the technology that people made sunk investments
17 in.

18 MS. MICHEL: Okay.

19 DR. GILBERT: I think I would agree.

20 MS. MICHEL: Vince.

21 MR. O'BRIEN: Getting back to your original
22 question about worrying about whether there would be an
23 incentive to infringe if all you ended up with was what you

1 would have gotten in the first place, --

2 MS. MICHEL: Yeah.

3 MR. O'BRIEN: -- I think this is a bit of a
4 strawman. I mean, first of all, the hypothetical has a bias
5 upwards because you're assuming then that the patent is
6 valid and infringed, so it could be higher. And then the
7 biggest thing is the damage award is not a license. You
8 still have to negotiate a license going forward. So all
9 you're doing, as John pointed out, is you're paying for past
10 use of the patent. And in some cases that may be enough.
11 You know you infringed while you came up with a
12 noninfringing alternative, maybe. But most of the time it's
13 just not going to be an issue. You're going to have to sit
14 down with that plaintiff and negotiate a license going
15 forward.

16 MS. MICHEL: Okay. Mary.

17 MS. DOYLE: But nothing saves you having come up
18 with a noninfringing alternative from an argument that that
19 too infringes someone else's patent in the end.

20 MR. O'BRIEN: Correct.

21 MS. DOYLE: It seems to me that we're looking for
22 a rule that applies everywhere universally, and I still
23 can't bring myself to understand or to fully comprehend a

1 rule that would accomplish that. It seems to me that
2 different rules apply with respect to products that
3 implicate maybe two or three patents, principally in the
4 pharmaceutical and biotechnical spaces or, you know, no more
5 than a handful, or products like ours that implicate -- I'm
6 told there's an Intel study that dates back many years now
7 that says a microprocessor implicates as many as 10,000
8 patents in a single -- excuse me -- in a single
9 microprocessor. I haven't had that problem yet, thank
10 heavens.

11 But the fact is that I think a different rule may
12 need to apply where account is taken of the value of all of
13 the contributing components, particularly patented
14 components.

15 MR. COHEN: Okay. Bill.

16 MR. ROOKLIDGE: I think there is plenty of
17 precedent in the law for dealing with appropriationment and
18 royalty-stacking issues like that. I think what people's
19 concern has been, that there hasn't been any kind of
20 extended treatment from the Federal Circuit on that. The
21 Federal Circuit was presented with that issue in *Integra v.*
22 *Merck*, and vacated the district court's damages ruling and
23 sent it back for reconsideration on precisely that point.

1 The Federal Circuit is sensitive to that issue, but it
2 hasn't yet been presented with a case that's squarely on
3 point on that that it can give a real extended treatment to.

4 My guess is that with the current attention on
5 patent damages in this economic climate, that people are
6 waiting for that case and we're going to see a lot of amicus
7 briefs when it comes along. And the Federal Circuit, I
8 think, is going to be well able to address that based on
9 what I've seen is a lot of tough love for patentees both in
10 the Supreme Court and some of the Federal Circuit cases on
11 apportionment and royalty stacking.

12 MS. DOYLE: Though the correspondence from Judge
13 Michel to the Senate Judiciary Committee two years ago would
14 belie that.

15 MR. ROOKLIDGE: Well, and I think if you see what
16 Judge Rader has been doing, for example, in the *Cornell*
17 *versus Hewlett-Packard* cases, where he's sitting by
18 designation and out there serving as an example for district
19 court judges on how to both serve as a gatekeeper, how to
20 come back after a jury verdict and look at it very
21 carefully, that is a great example. And if you look at the
22 --

23 MS. DOYLE: Certainly he inspires us, but I think

1 that we've been waiting rather too long for the result.

2 MS. MICHEL: Well, this would seem to be a good
3 time to move into some of the litigation issues that Bill
4 raised as really the place we need to think about and deal
5 with if we want more predictable decisions.

6 So how helpful is *Georgia-Pacific*?

7 (Laughter.)

8 MS. MICHEL: Are the *Georgia-Pacific* factors
9 helpful to courts and juries in reaching predictable awards?
10 If yes, explain. You know, if no, what else can we do?

11 Bill, you're our litigator.

12 MR. ROOKLIDGE: Okay. I think *Georgia-Pacific* is
13 very helpful when used for its correct purpose, which is
14 that the lawyers and the judges have a framework so that
15 they can very carefully limit what goes to the jury through
16 Rule 56 summary judgment motions, *Daubert* motions, in limine
17 motions. It sets a framework to see how jurors respond to
18 different factors through voir dire. It helps you think
19 about the kind of things that you want to put on your jury
20 form. It helps you in framing your objections, in to
21 keeping the evidence that's before the jury limited to
22 what's truly relevant.

23 It helps you frame your jury instructions. It

1 helps you teach the points that you need to teach the jurors
2 in order to make them want to rule for your client. But,
3 most importantly, where it is helpful and where you see it
4 time and time again is on motions for new trial, motions for
5 judgment as a matter of law, and on appeal.

6 MS. MICHEL: Bill, let me just ask from your
7 experience, when the damage award goes to -- when the damage
8 decision goes to the jury, do the instructions tend to list
9 all 15 factors, here they are, or are courts better at
10 picking out and instructing the jury as they go?

11 MR. ROOKLIDGE: You know it's very much decided I
12 think in part by the feedback that the lawyers give to the
13 judge. A lot of judges, the knee-jerk response is to use
14 the form instructions that have all 15 or 16 factors and not
15 to tailor it to the case.

16 A good instruction will in fact be tailored to the
17 case, but I have to admit, as an admission against interest
18 for my position, that having looked at a lot of mock jury
19 tapes, you will never see the jurors sit down with the
20 instruction and go through the *Georgia-Pacific* factors. It
21 simply is not done.

22 MS. MICHEL: So what are they doing?

23 MR. SIMPSON: You would be shocked at the things

1 that jurors do.

2 MS. MICHEL: Well, I'm curious. Can you give us
3 any insight into that? Surely, because --

4 MR. ROOKLIDGE: Oh, absolutely. Because what
5 happens is that jurors tend to get -- to be presented with
6 numbers, and that's why it is so critical to file motions in
7 limine and to object at trial to keep out evidence of the
8 kind that plaintiffs' lawyers like to get in: The gross
9 revenues of Palm; the sales, dollar sales of Palm of its
10 accused product. Because if you give the company's gross
11 revenues or market capitalization, those kind of numbers are
12 the numbers that jurors immediately leap to. It has nothing
13 to do with the laws of damages. It has everything to do
14 with what's presented to them. And if you give them a
15 number, jurors particularly in this economic climate will
16 leap to the highest number that they were given and
17 sometimes talk about smaller numbers.

18 MR. CHAIKOVSKY: So my --

19 MS. MICHEL: Okay, let's go to Yar.

20 MR. CHAIKOVSKY: So my comment there would be to
21 Bill's is that I would agree with him, that the *Georgia-*
22 *Pacific* factors are an excellent framework for litigators as
23 they go to the courtroom, but I would agree with him. In

1 having seen so many mock jurors, it's all about the numbers.
2 I'm not going to necessarily say they leap to the highest
3 number.

4 I mean obviously they may leap to the highest
5 number, but we have a set of rules that they are not looking
6 at, they do not pay attention to, and that's whether you
7 actually look at mock juries or actually poll a real jury
8 after the case, and that has nothing to do with the award
9 that they are granting. They are looking at the
10 infringement, who's the good guy, whether's the bad guy,
11 who's got the white hat, who's got the black hat; and then
12 the numbers coming out of them. I mean that's all that's
13 happening.

14 And so for those that are testifying as to these
15 hypothetical negotiations and using these factors and maybe
16 picking out four or five factors that they find to be the
17 most relevant and, you know, let's get to this highest
18 number, it's a number. And that number sticks in their
19 head. And if they then determine that there is an
20 infringement, well, that number stuck in their head. And if
21 some reason they say, well, the infringement was as bad,
22 well, maybe we'll go with the lower number that defense
23 counsel had. Quite frankly, maybe we'll even go with a

1 number in the middle.

2 But my point here is we can have this academic
3 discussion, which is great to have in these hearings, but
4 the realities are is we have a system, and quite frankly
5 even have changed, I mean a juror is not going to
6 necessarily -- because we can all play with these numbers,
7 Bill and myself, others, Mark can play with these numbers in
8 front of jurors, et cetera, and/or in front of the Federal
9 Circuit and play with these numbers and come up with numbers
10 that are, you know, whatever we would like them to be. And
11 that's where we live in currently right now.

12 And, as Bill pointed out earlier, yes, the Fed
13 Circuit's doing a better job. And, as Mary pointed out,
14 it's not all the Fed Circuit, it's specific judges on the
15 Federal Circuit, as we have splits. I mean Judge Michel's
16 letter is a perfect example.

17 So we don't have any predictability and I don't
18 know if we necessarily have a different rule we're going to
19 get that predictability.

20 MS. MICHEL: So what do we do?

21 MR. ADKINSON: Can we get all the methodologies
22 for both apprising and combining the *Georgia-Pacific* factors
23 so that there are in fact rules that can in fact not

1 perfectly define and give perfect predictability that would
2 be desirable, but at least would restrict the heights to
3 which juries could leap and the depths to which they could
4 go.

5 MR. CHAIKOVSKY: So in the *Markman* -- so Bill and
6 I use -- we discussed this before. You know, the next-best
7 infringing alternative, where we were before, and if we
8 could put a little bit -- and I hate to say it -- but a
9 little bit more mathematics to it where it's a little bit
10 more predictability, the rules and not the *Georgia-Pacific*
11 factors where I have so many factors and anyone can kind of
12 pick or choose and it's great for damages expert and lawyers
13 that I have such diversity to choose from in the process, if
14 I limit that process, that will still -- obviously we can
15 play with it, we can argue, but if I limit that process and
16 provide more precision, you're right. Do I have that answer
17 -- and maybe Mark does.

18 MS. MICHEL: So --

19 MR. ADKINSON: Can I -- okay.

20 MS. MICHEL: Yeah. Let me ask Yar one question
21 first and Bill too, if you have a thought. So if we design
22 these new rules, right, to limit what could go to the jury,
23 what is your faith in the courts and the judges willingness

1 to act as a strong gatekeeper? Do you ever hear, 'Counsel,
2 that's your problem. Take care of it on cross. I'm going
3 to let it into the jury'? Do you see courts being active in
4 --

5 MR. CHAIKOVSKY: It depends --

6 MS. MICHEL: -- keeping evidence out?

7 MR. CHAIKOVSKY: It depends on the judge. You
8 know, some are going to be gatekeepers, some are not going
9 to be gatekeepers. The realities are, as Bill has
10 mentioned, you also have the opportunity in motions for new
11 trial or JMAL (phonetic) for the court to actually take an
12 opportunity there to overturn a jury's verdict.

13 I wouldn't count on it. That's just not a place
14 where I would say, oh, okay, let's -- judges today could be
15 stronger gatekeepers with respect to the evidence that is
16 being provided in damages cases and say: Well, look, I'm
17 not going to let this in, whether it's a motions in limine
18 or even during the course of the trial. The judges could be
19 greater gatekeepers than they currently are. Are they? No,
20 I don't think they are.

21 And we see these -- and, again, it depends on
22 venue. It depends on the judge. It depends on a lot of
23 things, but we see a lot of stuff get in that I don't think

1 necessarily should get in.

2 MS. MICHEL: Bill, what's your experience in how
3 willing judges are to be gatekeepers?

4 MR. ROOKLIDGE: It's mixed. I think like Yar has
5 observed, it's mixed. But I think what we are seeing also
6 is in the past lawyers have not been as active in attempting
7 to keep this stuff out, not perceiving that they have the
8 tools to do so.

9 It was very much like the pre-eBay cases. A lot
10 of patent lawyers had been practicing their entire careers
11 and had no idea that there was this case out there,
12 *Weinberger versus Romero-Barcelo*, that identified what the
13 standards were for an injunction, and were blithely moving
14 along as if a statement out of the Federal Circuit law about
15 the standard rule was the be-all and end-all of injunction
16 law.

17 If lawyers get sensitized that they have a job to
18 do in presenting evidence and defending against damages
19 cases, combine that with the fact that the Federal Circuit
20 being more active, and it is being more active in damages
21 cases, I think we're going to see a great improvement and I
22 think we're already seeing a great improvement because of
23 the increasing attention paid to these issues.

1 MS. MICHEL: Okay. Mark, you've had your tent up
2 for a while.

3 MR. LEMLEY: Let me raise one other thing that I
4 think contributes to the problem and then two solutions.
5 The other thing that I think contributes to the problem is
6 not too much evidence coming in but on the defendant's side
7 too little.

8 As a litigator you do not want to spend a
9 substantial portion of your case in a unified presentation
10 on: Here's why you shouldn't make me pay very much money,
11 as opposed to: Here's why the patent is invalid or not
12 infringed, right.

13 So two solutions, one of which flows from that, is
14 bifurcation of damages. Right. I think one -- the single
15 thing we could do that would get more rigor into damages is
16 separated out from the rest of the trial and make people
17 actually try just the damages case.

18 The second thing I think that we ought to do comes
19 out of what Yar and Bill are saying. The problem with the
20 *Georgia-Pacific* factors is not that they don't encompass the
21 interesting questions, right, it's that there are 15 of
22 them.

23 Now really there are three of them, right. Really

1 three things matter. And if you parse *Georgia-Pacific* down,
2 you can get them into three, right. One is what's the value
3 of the technology compared to the next-available
4 alternative. The second is how many different things have
5 to be combined to make that technology. That is the
6 appropriationment question, right. Are there other patents
7 that have to be included, other contributors, so forth. And
8 third is what has the market actually done, right. Have
9 people in other similar cases negotiated a particular
10 royalty, and so forth.

11 If you structure the damages inquiry not as:
12 Here's 15 factors, jury, pick some and choose a number, but
13 as: These are the things you have to determine in order to
14 get to the number, you might or might not actually persuade
15 a jury to walk through those three factors, I don't know.
16 Bill may be right, that the jury's going to pick a number
17 based on who they like or don't like. But you will do is
18 you will enable judges to grant judgment as a matter of law.
19 You will enable the Federal Circuit to reverse in cases
20 where a jury verdict clearly can't be supported in that
21 structured environment as opposed to: Well, you know what,
22 if they just chose Factors 11 and 14 and disregarded all the
23 rest, maybe they could have come to this number.

1 MS. MICHEL: Okay. Rich, then John -- oh, yeah,
2 Rich, then John. Bill, okay.

3 DR. GILBERT: Well, I didn't expect such fuzzy
4 feelings about *Georgia-Pacific*. And it's nice to hear that
5 some people like it.

6 I guess a couple of things. One is even though
7 you have these 15 factors and you can read different things
8 into these 15 factors, it seems like it would be nice to
9 have another factor, one more saying something about not
10 attributing value to sunk investments and things -- the
11 discussion that we've had here, which I guess you can read
12 in *Georgia-Pacific*. It admits a lot of interpretation, but
13 I think a lot of the points that we're trying to make here
14 are not in the *Georgia-Pacific* factors.

15 MS. MICHEL: Okay.

16 DR. GILBERT: The other thing, Mark mentioned
17 bifurcation of liability and damages, so it just -- I can't
18 resist making one of my favorite suggestions, which I'm sure
19 will be torpedoed on constitutional grounds, which is I
20 don't know why we have juries doing this stuff. I mean I
21 understand that juries can be just as qualified as judges or
22 anybody else in determining liability on various issues, but
23 damages? I mean that's not what a typical jurist does. And

1 it seems to me there's a lot of reason to have some sort of
2 specialized or tells that court-appointed expert or somebody
3 who can add and subtract and do things like that and figure
4 out what damages are.

5 MS. MICHEL: John.

6 MR. SCHLICHER: Any rule that says consider 15
7 things and anything else you think is relevant and arrive at
8 a number permits any number. *Georgia-Pacific* factors are
9 simply what the district judge said they were: A list of
10 things that the judge or, more likely, the judge's clerk
11 found in the earlier reasonable-royalty cases, period.

12 Now how that became a test for determining damages
13 in patent cases is a historical tragedy. And we would do
14 well to simply get rid of them entirely because they don't
15 allow you to articulate a rule that focuses a judge's and,
16 if the lawyers really insist on it, a jury to the facts and
17 the theory that will let you figure out the economic value
18 that you wanted to put in the patent owner's pocket.

19 It seems to me if you -- if you articulated a
20 separate rule, which I thought -- you know, I've told you
21 the best I can do, then at least you have a chance. And
22 then at least you have the possibility of dealing with the
23 problem of companies whose profits are enormous and whose

1 revenue are enormous. You could, ignoring one subtle
2 detail, require a jury, for example, to figure out damages
3 based on a single unit, okay. There's no reason they need
4 to know the total number of units to do reasonable-royalty
5 damages with one exception that the law doesn't recognize
6 anyway.

7 So I think -- I really think it's -- obviously if
8 you include all the *Georgia-Pacific* factors, then they do
9 get to know about the infringer's total profits and they do
10 get to know about the extent of total use and they get to
11 know about the only revenue. So I think in order to arrive
12 at a place, at a system that allows us to get a reasonable
13 amount of money, we simply have got to get rid of them, with
14 all due respect to Bill.

15 MS. MICHEL: Bill. And, Bill, what do you think
16 about bifurcation?

17 MR. ROOKLIDGE: Well, I think bifurcation -- well,
18 first of all, let's make sure we're using our terms
19 correctly.

20 MS. MICHEL: Okay.

21 MR. ROOKLIDGE: Bifurcation is a misnomer. What
22 we're talking about is separate trials, a damages trial
23 following a liability trial. That's not bifurcation as it's

1 used in litigation.

2 The other thing I just wanted to mention briefly,
3 of course it is beyond the FTC's purview and that of
4 Congress to jettison the Seventh Amendment without a nasty
5 political fight, but I can guarantee you it will not happen
6 during my career. But, turning to the *Georgia-Pacific*
7 factors, the Supreme Court emphasized very early on that
8 determination of damages has to necessarily be a very
9 flexible determination.

10 The *Georgia-Pacific* factors were culled from a lot
11 of cases over many years. And I suggest to you that you do
12 not want to jettison all those decades of experience until
13 you find a framework that everyone can agree is a framework
14 that's going to move us forward to providing the kind of
15 clarity and predictability that is going to make business
16 happy and is going to make the other constituents in the
17 patent system happy as well. And I think we are a long way
18 off from that.

19 MS. MICHEL: All right. Do you want to go?

20 MR. ADKINSON: Beyond the structural question of
21 having a general structure to impose *Georgia-Pacific*, we
22 also have questions about specific factors. And Mark
23 usefully reduced the number of factors dramatically. I

1 wanted to ask, A, the general question of whether there are
2 particular factors that people think can be misused or are
3 misused in the process and, in particular, I wanted to focus
4 on average royalty rates for an industry, which are
5 sometimes proposed or rates on comparable licenses and
6 whether you really can have licenses that are comparable
7 given the heterogeneity in licenses and rates on different
8 types of different patents, where the patents may be
9 heterogenous.

10 And, Vince, you had had your tent up before, so
11 with that and whatever else you were --

12 MR. O'BRIEN: Well, let's go onto your question.
13 I think royalty rates on industry -- industry rates or so-
14 called comparable licenses are -- when I work for the
15 defendants it's one of the few ways you have of dealing with
16 this throwing numbers around the jury room. This is one
17 thing out bring them back into reality, you know.

18 And now, sure, they're not comparables, but if I
19 have an industry, say, semiconductors where licensing is
20 always done at less than one percent or some lump sum or
21 cross-licensing, and the other side is proposing an eight-
22 percent royalty rate, I need to be able to look at other
23 licenses. And I think right now, if anything, the courts

1 are too restrictive. They try to peel back, you know, the
2 number of licenses you can work at.

3 Now the other thing on *Georgia-Pacific*, though,
4 that I think is problematic is its emphasis on the
5 profitability of the product. I mean the value of a
6 component has little to do with the profitability of the
7 product. You know, if I'm building a house, it doesn't --
8 you know the profit I make on that house isn't going to
9 affect what I pay for a hammer. And it gets us misguided.
10 It gets us into the big-numbers problem, because the
11 plaintiff always talks about gross margin and the defendant
12 says net. And it just gets us off on the wrong -- we're off
13 on the wrong foot.

14 And I would back up to part of what John said but
15 also what Mark said, is it would be much better having a
16 conceptual framework, the three things you look -- the three
17 areas you should examine, as opposed to this list of things
18 we marched through, which is also missing the single most
19 important thing of all, and that is the next-best
20 alternative. Often that just throws *Georgia-Pacific* right
21 out of the window. And without it, G-P's untethered.

22 MR. ADKINSON: Marty.

23 MR. SIMPSON: Well, I would be cautious about

1 throwing out the *Georgia-Pacific* factors when we're not
2 replacing them with something. I think you need something
3 that's practical for a jury or a judge who's sitting on the
4 bench.

5 And now if you want to group them, or something
6 like that, like Mark was suggesting, to rearrange them, you
7 can do that, to say: Consider this group together, consider
8 this group together, something like that. You might do
9 something that you think improves it, but you have to have
10 something to focus the discussion on when the trier of fact
11 is trying to figure out what do I do with this.

12 And one of the things I come back to is we do
13 license negotiations all the time and what we're asking is:
14 Give us a business plan, we want to see what your
15 profitability is. That's the question. And it's a
16 profitability based on what we're licensing.

17 Now typically in the areas we work in, we are
18 licensing them, the main idea, that is the product. So our
19 focus on profitability is -- that really is the problem.
20 And then you work down from there on what a reasonable
21 royalty is.

22 So I think you need to have something in mind,
23 whether it's the suppositious negotiation, or, if you can't

1 get there, say: Okay, here are some factors. If you want
2 to regroup them, regroup them. But you need to focus the
3 discussion in some way.

4 MR. ADKINSON: Mark, I got the impression actually
5 much earlier that you were suggesting that we might focus on
6 the noninfringing alternative as an alternative to the
7 hypothetical negotiation itself. Is that --

8 MR. LEMLEY: Right. So I mean my worry about the
9 kind of actual comparables, I think actual comparables have
10 a place. The difficulty is -- well, the first difficulty is
11 that they don't take account of actually -- the assumption
12 that the patents are valid and infringed, right.

13 So if every -- if no one pays more than one
14 percent for a patent in the semiconductor industry, that has
15 only, based on the court statistics, a 24-percent chance of
16 being held valid and infringed if it makes it to court, it
17 doesn't follow that the patent that has actually been held
18 valid and infringed is only worth one percent, right. It
19 might be worth four percent or it might be worth, you know,
20 somewhere in between.

21 And so I think that that's a concept that's both
22 correct in the law and really hard to explain to the jury.
23 So now we have the alternative to the throw-around, big

1 numbers and get it into the jury box, we have the sort of
2 throw around the small numbers. If you get up and tell
3 someone: Hey, nobody's paid more than one percent, even
4 though logically that should imply that you should pay four
5 percent in this case, people aren't likely to get it in the
6 jury box, right. And so I worry a little bit about how
7 those numbers can mislead.

8 You also see those numbers -- there are all sorts
9 of inconsistencies depending on circumstances, right. So
10 there are lots of circumstances in which people pay for a
11 nonexclusive license in a particular field of use for a
12 patent more than the purchaser of that patent paid for the
13 entire patent. And that suggests that there's an
14 instability in the choice of the number you're going to use
15 as to what the right comparable royalty is in this
16 negotiation.

17 MR. ADKINSON: Mary.

18 MS. DOYLE: Well, there are a number of kind of --
19 the assumption that the patent is infringed invalid I think
20 does go into -- you wouldn't pay anything that you didn't
21 think was infringed invalid. So in my view I do think that
22 similar agreements reached between parties absent
23 negotiation is good evidence of what the defendant ought to

1 be paying in a case where the plaintiff has prevailed.

2 And I think we continue to struggle here with
3 defining how patents -- damages should be calculated. We
4 have -- I know you argue that lawyers should get better,
5 well, I'll tell you this \$21 million thinks that lawyers
6 think they're pretty good, doing the right thing already,
7 and they're many people that you know.

8 So it seems to me that 'lawyers should get better'
9 isn't an adequate solution. It seems to me that injunctions
10 should be issued in every case where infringement and
11 invalidity are proved doesn't seem to me to work either
12 because it works very nefarious, results in settlement
13 negotiations in my experience.

14 And I think the hypothetical negotiation in the
15 end seems -- I mean I think *Georgia-Pacific* is trying to
16 approximate all the things you might think about in such a
17 negotiation, but *Georgia-Pacific* is notoriously empty of any
18 real meaning here. It certainly hasn't led to
19 predictability of results. It's led to, in my view, grossly
20 inflated -- or a willingness to settle cases that shouldn't
21 be settled at all because you can't afford to pay 42 million
22 instead of \$21 million in the course of your defending
23 yourself over a number of years.

1 So I have to say that I find myself back to
2 apportionment. And it seems to me that apportionment, just
3 by itself, as a rule standing alone is the only thing that
4 anyone's come up with that has half a chance of focusing the
5 discussion.

6 MS. MICHEL: Okay. We are going to -- John, then
7 Bill briefly. We will come back to apportionment and the
8 entire market value rule right after break. So if you have
9 any -- we want to be fresh for that discussion, I think.

10 So, John or Bill, if you have any comments on
11 what's just been said.

12 MR. SCHLICHER: I'm going to sound like a lawyer
13 now. What Mary said is what the law ought to be. In 1915,
14 when the Supreme Court said it's okay to do it this way, it
15 said: Well, when there aren't lost profits and you can't
16 prove the infringer's profits attributable to the invention
17 and you got to do something else, make an approximation of
18 the value of the invention given its advantages.

19 If you read the Supreme Court cases, the word
20 "advantages" is used in dozens and dozens of apportionment
21 cases. That's a very important word. That decision led to
22 the change in the Patent Act in 1922, to put that measure of
23 damages in the statute. In about 1933 or 1935, the only

1 other time the Supreme Court's had a crack at this, it said
2 it's okay to do it that way, but the measure of damages --
3 measure the damages by the -- I forget the exact words --
4 but increase in revenue or amount of cost savings,
5 essentially, which is the same concept in others.

6 And that formula is Factor 9 of *Georgia-Pacific*.
7 The utility and advantages of the patent over old modes and
8 devices, if any, that have been used for working out similar
9 results. That's what the Supreme Court said the test was.
10 If you want to keep the list, fine. Narrow it down to nine.
11 And I think you have to think 13, Mark. I'm not sure of the
12 other one you want to include. And then you have a
13 reasonable standard that's entirely consistent with the law,
14 entirely consistent with the intent, and it allows you to do
15 something that has some focus.

16 MS. MICHEL: Bill.

17 MR. ROOKLIDGE: Apparently I didn't make my
18 position clear enough. My position is not solely that
19 lawyers should get better but that trial judges should get
20 better and appellate judges should get better at this.

21 I agree with John that there is plenty of
22 authority in the existing case law for apportionment.
23 Obviously apportionment is a concept that's not applicable

1 to all cases. Once again, the Supreme Court recognized that
2 that flexibility was necessary. But I think that
3 flexibility being necessary has unfortunately left us
4 somewhat unmoored. But the bottom line is there's plenty of
5 authority to do what we need out there in the case law. And
6 what we ought to address this afternoon is how to get there.

7 MS. MICHEL: Okay. Great. With that we'll take
8 about a ten-minute break.

9 (Recess taken from 3:10 p.m. to 3:28 p.m.)

10 MS. MICHEL: We're back and we're going to
11 continue with reasonable royalties and, in particular, the
12 problem of how to assess damages, reasonable-royalty damages
13 in a situation where the invention is a component of a
14 larger product. This could be the feature on the processor
15 that is incorporated on a CPU brick, which is incorporated
16 into a work station, for instance. And, in particular, an
17 area of recent debate has been the role that apportionment
18 or the entire-market-value rule should play in that
19 reasonable-royalty calculation.

20 So I'd like to get the panelists' thoughts on how
21 to approach that question. I'm going to start with Mark
22 Lemley.

23 MR. LEMLEY: Because I have a very defined view on

1 this question, which is to say the entire-market-value rule
2 has no place whatsoever in reasonable-royalty analysis.

3 The entire-market-value rule is a concept that
4 says: Well, if my part of the -- my component of the larger
5 invention is the really important component, it's the reason
6 people buy the product, then people would have bought the
7 product from me. And because they would have bought the
8 product from me they also would have bought all these other
9 components from me and not from the infringer.

10 And that makes a certain amount of sense. There
11 are issues with the, but it makes a certain amount of sense
12 in a lost-profits context, right. So if I would have the
13 made the sale of the whole product, not just the component,
14 because I've got the really valuable feature, and you
15 wouldn't have made the sale, then all the profits you made
16 from the sale in some sense belong to me. But it doesn't
17 make any sense at all in a world in which there is not a
18 plaintiff's product being sold at all, right. A patent
19 owner who is a nonpracticing entity would never have made
20 the sale of some entire product. They don't make the
21 product.

22 And so the concept of the entire-market-value rule
23 gets accidentally transported over from lost-profits cases,

1 where it makes sense, to reasonable-royalty cases via a
2 Federal Circuit -- a dictum in a Federal Circuit case
3 involving lost profits that says: Why don't we do this in
4 both lost-profits and reasonable-royalty cases. In fact
5 they didn't do it in both, but after they said in their
6 opinion that we do it in both, then they started to do it in
7 both.

8 And the problem is unless you believe that this is
9 really the only thing that contributes any value to the
10 success of the product, if you give the first patent owner a
11 hundred percent of the value of the defendant's entire
12 product, there's no percent left over, right.

13 The next -- the second patent owner who shows up
14 and says, well, I have a value component too, they're going
15 to get paid something. Maybe it should be a dollar. I'm
16 kind of with John on this question, right. You know,
17 sometimes the answer should be the royalty ought to be
18 nominal, but as a practical matter that's just not what the
19 law does. And so we end up punishing companies, right,
20 basically engaging in royalty stacking by definition
21 whenever we do entire-market-value rule in reasonable-
22 royalty cases.

23 MS. MICHEL: Mark, given that, if you're right,

1 what does that mean about how we should think about
2 apportionment in the context of reasonable royalties?

3 MR. LEMLEY: Well, I think the answer is your --
4 you've got to do apportionment. And to some extent, of
5 course courts always already do apportionment in a
6 reasonable-royalty case, they just don't do it very well,
7 right. So there's a reason you get a percentage of the
8 value of the production as your royalty award and not a
9 hundred percent, right. That reason presumably is we
10 recognize that there are other contributors to the success
11 of the product that need to go into the calculus.

12 But if you just phrase it as a percentage number,
13 if you just say as somebody was saying here: Well,
14 Microsoft Windows and Microsoft Office together have made a
15 quarter of a trillion dollars over the last 17 years, all I
16 want is one percent of that or 2.5 billion, you don't get a
17 sort of very clearly articulated reasoning, right. You
18 don't get any thinking about what it is that this patent
19 contributes relative to all of the other contributors to the
20 success of the production.

21 MS. MICHEL: Okay. How are you defining
22 apportionment in that context? I'm wondering if one of the
23 reasons I'm so confused about the ongoing debate is

1 apportionment's being used by different ways and by
2 different people.

3 What do you mean by apportionment there? Is it
4 defining the base differently? Is it apportioning --

5 MR. LEMLEY: Right, so --

6 MS. MICHEL: -- that the whole product doesn't get
7 the entire royalty? What is apportionment?

8 MR. LEMLEY: Well, right. So I mean apportionment
9 broadly is, right, dividing out the percentage of the
10 production that is attributable to the patent and,
11 therefore, ought to be paid to the patent owner.

12 MS. MICHEL: Is that about the base?

13 MR. LEMLEY: Well, right. So, as currently done,
14 it ends up basically being about the base, because we're not
15 very good at affirmatively pulling out, we don't -- it's one
16 of the *Georgia-Pacific* factors, but we never really pay a
17 lot of attention to it.

18 I think the fight over legislative reform on
19 apportionment is about the question of whether we ought to
20 specifically call out and require courts to engage in a
21 process of saying: Okay, the patentee is -- the patent is
22 one component of the product that contributes to its
23 success, but there are others as well. And we need to pay

1 attention to those others in deciding how much the patentee
2 should get paid. I think that's the right thing to do,
3 because if you don't do that, then you just end up fighting
4 over broader versus narrow royalty bases and what the right
5 percentage of that royalty base is without any context,
6 without any specific evidence about what the other
7 contributors to the value of the product are.

8 MS. MICHEL: Okay, Vince.

9 MR. O'BRIEN: Yeah. I think that in the
10 reasonable-royalty context if you start talking about the
11 entire-market-value rule you've made a mistake right there.
12 You know, you should just look at industry practices, I
13 think is the best thing to do. if they're using -- and it
14 gets back to this base issue. And, you know, if the royalty
15 rates you've been looking at are based on the component
16 base, then that's what you apply it to. if it's based on the
17 full product, you do it to that.

18 Now it seems to me, though, you can -- if you get
19 rid of the holed-up problem, you've solved I think the
20 apportionment problem in almost every case except where you
21 have the, you know, say ten features that are necessary to
22 sell the product but not sufficient by themselves. And so
23 the guy is sitting there, he's got nine of the features,

1 either they developed themselves or they licensed. And
2 somebody shows up with the tenth one and says: Hey, without
3 your -- without my -- without a license from me, you can't
4 sell your product. And he wants to grab all the value of
5 that. And that's the difficult problem at that point.

6 In the real world, most of the time everybody's in
7 the industry and they solve the problem through cross-
8 licensing and they work it out. It's when you introduce the
9 nonpracticing entity into that equation, which would also
10 include people who practice in another area but not in that
11 area, then you've got someone who can sit there and hang in
12 there and say, no, I want it all.

13 And, quite frankly, I don't have an answer for it
14 because I don't like ten features, you know, divide the
15 value by the ten, and I don't like any of the suggested
16 alternatives, but it is a serious problem.

17 MS. MICHEL: Okay. Rich.

18 DR. GILBERT: Well, at one level this issue of the
19 total-market-value rule versus apportionment is like saying
20 do I pay in yen or do I pay in dollars. I mean just the
21 different, as we put it in economics, a different *numerare*,
22 it's the same price either way, except for transaction costs
23 --

1 MS. MICHEL: Did you mean -- do you mean by that
2 the size of the base can vary and we just adjust the rate
3 accordingly and the total damages ends up in the same place
4 or did you mean something else?

5 DR. GILBERT: If it's -- I mean just that: If
6 it's done correctly. Really, apportionment is about doing
7 the analysis correctly. And I don't think the answer in
8 terms of getting people to do the analysis correctly is a
9 particular rule but, rather, somebody, hopefully Court of
10 Appeals for the Federal Circuit or maybe the Supreme Court,
11 or a little scary to think about Congress doing this, but
12 someone should note that because you have one patent, it
13 doesn't necessarily mean you have a claim on the entire
14 product if there are many, many sources of value.

15 MS. MICHEL: But can I -- can I push back a
16 little? When you say you don't have a claim on the entire
17 product, I'm trying to understand what people mean by that
18 in the sense of does that mean the base can't be the entire
19 product, or does that mean that the patentees shouldn't be
20 allowed to extract royalty value from the whole product? I
21 don't know what that means.

22 DR. GILBERT: No -- well, I don't think the base
23 matters so much.

1 MS. MICHEL: It's not about -- okay.

2 DR. GILBERT: Because how you calculate it, if I
3 have -- I can do a calculation. I think what went on with
4 the *Alcatel-Lucent* calculation, damage calculation -- this
5 is very instructive. I mean the jury came up with a very
6 fanciful calculation and then the judge came back and said:
7 No, you have to apportion. The apportion could have been
8 done many different ways.

9 In that case the analysis was done on the price of
10 a computer, but it could have been adjusted for the number
11 of patents or other sources of value on the price of the
12 computer. It could have been applied just to the value of
13 the Windows Operating System that incorporated the mp3
14 patents, or it could have been done in many different ways.
15 And I think the judge in that case pointed out a number of
16 mistakes that were made and how a more reasonable number
17 could have been created.

18 I don't think there's a magic formula to doing
19 this anymore than I think there is a particular formula for
20 doing any damage calculation, even if you don't have a
21 complicated, complex technology. Even though some people
22 will try to sell you formulas for doing damages; but in any
23 serious, complicated case it's going to have to be an

1 individual investigation of the factors.

2 But what I would like to see is something along
3 the lines of a warning label on a pharmaceutical product,
4 saying that do this damage calculation incorrectly, it can
5 be hazardous to our collective health, and some advice that
6 one patent doesn't mean you have a claim on the entire
7 product.

8 MS. MICHEL: This apportionment concept described
9 the way you described it seems to involve taking into
10 consideration the contribution that the invention makes to
11 the entire product. Is it anything more than that?

12 DR. GILBERT: Well, it's certainly going to be
13 more than that in any specific analysis, but the underlying
14 principle I feel is what is the contribution, much of what
15 we've discussed earlier: What is the incremental
16 contribution relative to the next-best noninfringing
17 alternative.

18 MS. MICHEL: Okay. I'm just wondering if we need
19 a fancy word for that. That seems to be upsetting people.

20 DR. GILBERT: A buzzword.

21 MS. MICHEL: Right.

22 DR. GILBERT: The delta.

23 MS. MICHEL: Okay.

1 MS. MICHEL: Let's call it the delta. Okay, what
2 is your dealt.

3 MS. MICHEL: Okay. All right, Mary.

4 MS. DOYLE: I guess I'm struggling with the
5 following proposition that I've raised a couple times and
6 perhaps haven't explained as well as I can or ought to. The
7 product I have in my hand is a Palm Centro and it has 800 or
8 900 components in it. And we negotiate a value assigned to
9 every one of those components --

10 MS. MICHEL: Right.

11 MS. DOYLE: -- that has something to do of course
12 -- you know, there's always a question of how much does it
13 cost to produce the component versus, you know, what is the
14 value. And so there's always some negotiation between those
15 two different approaches to valuing a commodity or an item
16 that goes into a decision on the price. But ultimately the
17 price is decided. And right now today the value of this
18 device and the relative value of each of its components has
19 already been decided by a very complex set of negotiations
20 over a long period of time.

21 And I haven't run into a patent yet that doesn't
22 really relate to one of the smaller components in here,
23 unless it's, you know, one of those over claiming things

1 where you say the very small component in a mobile computer.
2 Well, so the value of the actual invention is something we
3 want the judge to focus a jury on.

4 But, in the end, the discussion's already
5 happened. So when I say apportionment I'm thinking about
6 what actually was patented here, was it a change in the
7 touchscreen or the keypad? What actually was patented here
8 and how much did that cost? How much do you pay to have a
9 keypad on a device.

10 And, in the end, then the percentage, a
11 percentage, whatever is commonplace in the industry ought to
12 be applied to that device to satisfy -- I mean to that
13 component to satisfy the question. But, as you say, you
14 could come to the same number by disregarding the base, you
15 know, the base of any given component. You could look at
16 the whole device and try and figure out what contribution
17 one small invention made to the whole device. But everyone
18 gets themselves all tangled up in their underwear, so to
19 speak, by saying: Well, I would never buy a car without a
20 windshield wiper or an intermittent windshield wiper,
21 whatever the variation on the theme is today. Well, okay,
22 you wouldn't, but you wouldn't buy a car without tires and
23 an engine and 1700 other things either.

1 MS. MICHEL: Right.

2 MS. DOYLE: So people keep trying to claim, as
3 Rich says, the entire value. You know, that they've made
4 something by adding a windshield wiper that was worthless to
5 begin with. That's just not accurate or fair. So in the
6 end I think there's already an economic process, a series of
7 very real negotiations that have occurred over time to
8 define the value of this product, what a consumer is willing
9 to pay, what we are willing to pay. And if you simply
10 attach the patent to what it's clearly designed to -- or the
11 source of the invention, the invention -- in other words,
12 you've got to -- when you read any patent, almost any
13 patent, it relates to a small thing. It doesn't relate to
14 the whole thing.

15 MS. MICHEL: Okay. Let me --

16 MS. DOYLE: -- been around for 30 years.

17 MS. MICHEL: Right. Okay. So you're -- I want to
18 pack that a little bit.

19 MS. DOYLE: Okay. Sorry.

20 MS. MICHEL: No, that's very helpful.

21 Okay. So say the patent relates to a small
22 feature within the entire device there, and you want to
23 apply the damages to the small feature. How mechanistically

1 -- because, as you point out, those kinds of negotiations
2 and thought processes have already occurred. How
3 mechanistically do we go through that damages calculation.
4 Are you talking about make the base of the reasonable-
5 royalty calculation just that -- just that feature and then
6 applying a rate to that or are you talking about something
7 else?

8 MS. DOYLE: I think I'm talking about the former,
9 only because in my simplistic world what I would like to do
10 is to ask the inventor to go talk to the person who produces
11 the product to which their invention relates.

12 So I get knocking on our door all the time people
13 who have invented something that relates to a chip. Nobody
14 at Palm knows anything about the chip other than what it
15 ultimately will do. Doesn't know anything about the guts of
16 a chip. We are not qualified to say whether or not Palm
17 infringes or the supplier of that chip infringes. We'd like
18 the person to go visit the chip vendor.

19 But they resolutely refuse to do that, which of
20 course renders negotiations almost impossible. No one has
21 the information necessary to do it. And they're driven to
22 do that because they are entitled to attach whatever royalty
23 rate they think is appropriate to the entire value of the

1 product. They can go to any place in the chain they want,
2 so long as it incorporates their component. And of course
3 they're going to go to the end.

4 MS. MICHEL: So is the complaint is that they're
5 trying to make the entire product the base and apply the --

6 MS. DOYLE: The complaint is that --

7 MS. MICHEL: -- raise the satisfaction --

8 MS. DOYLE: -- they're trying to benefit from the
9 inventions of many, including Palm, --

10 MS. MICHEL: Okay.

11 MS. DOYLE: -- in seeking recompense, compensation
12 for the invention they made, which may and often is trivial
13 or, if not trivial, but it may be valid, but I haven't seen
14 one yet.

15 MS. MICHEL: Okay. At some point when we're
16 thinking about how to measure this royalty, do the
17 calculation and identify the space, don't we need to
18 identify some kind of measurable product. Maybe it's just a
19 chip, but something that we can identify and associate a
20 cost with. If the invention is only a circuit on the chip,
21 we can't have the base be a circuit because that's not
22 something we value.

23 We sell the chip. The chip is a product in

1 commerce and, therefore, we can assist a price with it and
2 come up with a base; does that make sense --

3 MS. DOYLE: And perhaps that's the product in
4 commerce made -- I haven't thought this through. But I can
5 see that the apportionment argument could be reduced to an
6 absurd point, where you could never negotiate anything. But
7 I guess I think about it because of the world I come from in
8 terms of the components, yes.

9 MS. MICHEL: Okay. All right.

10 Bill.

11 MR. ROOKLIDGE: Well, under the current law of
12 course the patentee bears the burden of providing
13 apportionment for improvement inventions. But I have never
14 seen a case where a court has really held let patentee to
15 that burden and poured them out for nominal damages, saying
16 you haven't -- at least I haven't seen a modern case -- you
17 haven't proven that.

18 Traditionally we prove apportionment by deductions
19 of the infringer's contribution or comparison to next-best
20 alternative. The problem I think with what you've described
21 is it focused not on the value but the cost of individual
22 component. And typically cost and value to the overall
23 device can be different.

1 I think what's proper -- and we need to get this
2 right because royalty stacking -- excessive royalty stacking
3 is a problem. It's a problem in your industry and it's a
4 problem in other industries. And the courts need to get
5 this right. The way to do that seems to be not to focus on
6 the value of the invention but the value of the use made of
7 the invention by the infringer.

8 MS. MICHEL: All right. Let's -- John.

9 MR. SCHLICHER: "Apportionment" is a word that was
10 used in the cases for from about 1820 to, roughly, 1966 to
11 describe how damages are determined when they are measured
12 by an infringer's profits. And the word was used to do what
13 I have said so many times, that the value, the additional
14 value -- that we should have a word for it. Rich had a good
15 one: Incremental value.

16 MS. MICHEL: "Delta", he said.

17 DR. GILBERT: Delta.

18 MR. SCHLICHER: Or delta, that's even shorter.
19 The incremental-value rule. The portionment in the law
20 never had anything to do with figuring out how to separate
21 out from the selling price of a product some portion of the
22 price, which we will start from, to then go to a number.
23 Apportionment was always take what actually happened,

1 infringer sold a product, it made a certain amount of money.
2 How much of that money was the result of using this
3 invention, compared to doing it the next-best way. The
4 next-best way might have added a penny to the selling price.
5 It might have reduced -- or the next-best way might mean
6 selling price was a penny less. And, if so, you take the
7 revenue, multiply it by the number of units times a penny,
8 and that's the damages.

9 So -- and I use apportionment. And what happened
10 was the Supreme Court wrongly said, in my mind, that that's
11 not available anymore. So people stopped reading those
12 cases. In *Grain Processing*, the Federal Circuit cited all
13 those cases, so I think they're still relevant.

14 But, anyway, when I say apportionment I mean the
15 rule. What do you do when the invention is a small
16 component? The law is that if there is a component in
17 Mary's product and the claim says a memory chip in a PDA, if
18 that's the right, --

19 MS. DOYLE: It's good enough.

20 MR. SCHLICHER: -- the current right term. But
21 all of the novelty in the invention is in the memory chip.
22 Then it shouldn't be too hard for a lawyer to say to
23 themselves: Well, a noninfringing alternative to that

1 invention is a PDA with a different kind of memory chip.

2 So if -- and actually the way it should work in
3 practice is if the patent owner has sued the PDA seller,
4 damages ought to be the difference between the profits that
5 company would have made selling a PDA with that memory chip
6 minus the profits the company would have made, and I would
7 use net profits for both, using the next-best kind of memory
8 chip it would have.

9 And when you're doing that -- let me just say the
10 other thing, if they sue the memory chip seller, then the
11 test ought to be it's the difference between the price of
12 that memory chip with the invention minus the price of the
13 next-best chip that company could have made without the
14 patented feature.

15 In the first case, where the PDA seller is the
16 defendant, a piece of evidence that is extraordinarily
17 valuable and absolutely, positively always ought to be
18 considered is the price at which the memory chip seller sold
19 that chip to the PDA manufacturer if it's a single-use chip
20 or if the parties know that that's the use that's going to
21 be made of it, because while it's -- and Rich is way better
22 at this than I am, but economically that price by definition
23 will reflect to some extent the value of that invention to

1 the PDA buyer, I think.

2 It might be a little more, but it's not going to
3 be very much more, because you'll pay -- you know, you'll
4 pay a little less than its real value to you. So in -- in
5 Mary's case, when she is faced with these people, the number
6 she is talking about, and I don't know if you were talking
7 about a different thing, but the price at which Palm, if
8 we're using them as an example, bought that little
9 component, ought to be very important in determining
10 damages.

11 Now it's not all the total --

12 MS. DOYLE: It's never mentioned.

13 MR. SCHLICHER: -- it's not the total price of
14 that chip, it's a part of it, but that's really good -- a
15 good starting place.

16 MS. MICHEL: Okay, Marty

17 MR. SIMPSON: In license negotiations you deal
18 with royalty stacking as a normal topic. And what the
19 parties are doing is taking a look at, okay, what else
20 applies in the economic situation, coming out with, again,
21 what's a profitability and then coming back from that and
22 getting a reasonable royalty.

23 If they're paying a lot of royalties to other

1 people, the profitability will be less. And the parties can
2 choose their royalty base. The Supreme Court has let the
3 parties choose a royalty base larger than the claimed
4 invention. In this discussion that's an analog to the
5 entire-market-value rule. The parties can choose a royalty
6 base smaller than the claimed invention if, again, it's for
7 their convenience. In this discussion that's apportionment,
8 but that's part of a negotiation on trying to find for the
9 parties to come to a negotiation about what a reasonable
10 value is.

11 MS. MICHEL: So what you're suggesting then is the
12 base ought to be driven by what would have happened in the
13 hypothetical negotiation rather than a legal rule?

14 MR. SIMPSON: If you can get the hypothetical
15 negotiation in a way that is given to the trier of fact,
16 that will actually, I think, answer the question.

17 If, on the other hand, you can't get that and you
18 have to have factors that go to the jury, then I'm looking
19 at it and thinking, well, the parties can choose a royalty
20 base larger than or smaller than. So it seems to me that
21 what the *Georgia-Pacific* factors are telling you is
22 something that's common sense in a normal negotiation. You
23 can do that, however, as a patent attorney for over 30

1 years, you will always start with the claimed invention and
2 then you will work from there.

3 MS. MICHEL: Let me ask about that. The claimed
4 invention, there have been voices in the debate that suggest
5 the base needs to be coterminous with the invention as
6 claimed, the scope of the claim. How do we deal with the
7 issue of the invention is a feature on a processor? But I
8 can write a claim, a work station, including a processor
9 having this feature. Now the scope of my claim is now the
10 work station, not the processor. Does that legal construct
11 therefore drive the base to be the work station? Just
12 because I've claimed it that way --

13 MR. SCHLICHER: Mary, -- can I interject --

14 MS. MICHEL: Well, actually let me hear from
15 Marty.

16 MR. SIMPSON: Well, first, if that's the claimed
17 invention, you can take a look at it if you want to choose
18 that as a royalty base and the parties look at it or the
19 trier of fact looks at it and says this is minuscule
20 compared to the value of what you're selling. Then you got
21 a 0.000 something as the royalty rate if that's your base.

22 MS. MICHEL: But -- Mark.

23 MR. LEMLEY: So I mean I think that's -- and this

1 goes back to Richard's point about equivalency, which is
2 entirely true in economic theory and just doesn't work in
3 practice, right?

4 DR. GILBERT: Lots of things --

5 MR. LEMLEY: Because it's much easier to persuade
6 somebody to give a very small percentage of a very large
7 base, because people, you know, jurors but also judges don't
8 understand the kind of law of small percentages, right.
9 It's why people buy lottery tickets.

10 And it can't be the case that the way you write
11 your patent claim to an otherwise identical invention should
12 give you a different royalty.

13 MS. DOYLE: Result.

14 MR. SIMPSON: Right. The fact that I chose to
15 claim a car containing an intermittent windshield wiper
16 rather than an intermittent windshield wiper should not give
17 me a larger royalty at the end of the day, but, as a
18 practical matter, it tends to do so.

19 MS. MICHEL: Should it drive the math? Should the
20 --

21 MS. DOYLE: No.

22 MS. MICHEL: -- way I wrote -- and explain why --
23 should the way I wrote the claim, if I recite the car, mean

1 that I have to have the base be the car and the royalty be
2 something -- the rate be something really small? Can we
3 disconnect those?

4 MR. SIMPSON: Yeah, I think we have to disconnect
5 them, right, because in the real world those two numbers
6 will not be equivalent, right. It should -- you're right,
7 it should be .0000 whatever of a really high number or one
8 percent of a much smaller number, but, as a practical
9 matter, those aren't going to be the same.

10 And so I think the focus has got to be on what
11 we've been talking about is the incremental contribution of
12 the patented invention. What that means is that the -- you
13 know, the Federal Circuit repeatedly intones: You can never
14 under any circumstances focus on the point of novelty of the
15 invention. But, as a practical matter, there are five or
16 six different legal doctrines in which we already focus on
17 the point of novelty of the invention. And this is one I
18 think where, as a practical matter, you have no choice but
19 to focus on the point of novelty of the invention.

20 You can't just say: Oh, this is a patent on a
21 car, so we'll give damages for the car. You've got to say
22 the only novel feature of this patent claim is the
23 intermittent windshield wiper.

1 MS. MICHEL: Okay. When we do that, when we try
2 to determine our base based on the convenience of the
3 parties, what makes sense in commerce, and the invention
4 itself, when that leads you to a base of a windshield wiper
5 rather than a car, but my claim is written as a car, is that
6 apportionment? Is that what people are meaning by
7 apportionment? Any --

8 MR. SIMPSON: I mean I guess it involves
9 apportionment, right. I mean that is -- well, so if you're
10 measuring the base of the car, if you're -- I mean I think
11 of it as -- I think of apportionment as actually not
12 worrying not so much a problem in that situation. If people
13 are selling windshield wipers separately, right, and I
14 invented this thing, you don't need to apportion. You've
15 got the patent, -- you know, the thing you're patenting --
16 measuring is now covering the product that's actually in the
17 market, right. So if Mary's got a separate component, then
18 we're in good shape, right.

19 Apportionment's what's necessary when you've got
20 that same situation but: We only sell the thing as an
21 integrated product, right. So it's not the chip that Mary
22 happened to import, it's one of the six cool features of the
23 screen, right. The sort of way you move your fingers to

1 cause some particular thing to happen. But we don't sell,
2 you know, screens with five of the six cool features and
3 screens with six of the six cool features. We sell screens.
4 And so we've got to figure out, well, all right, how much
5 did that one value, that one move add relative to all these
6 other things, and we've got to do it in a world, in a
7 circumstance in which we don't have the market signal of
8 people paying just for that one individual piece.

9 MS. MICHEL: Okay.

10 MR. SIMPSON: And that I think is where
11 apportionment matters.

12 MS. MICHEL: All right. Rich.

13 DR. GILBERT: Yeah. I think on the issue of the
14 base, we could interpret apportionment to mean: Apply the
15 royalty to the smallest standalone -- or potential
16 standalone product. In your case, for example, an
17 integrated circuit inside the Palm.

18 In the *Alcatel-Lucent* case it would be the Windows
19 Operating System instead of the computer, and the judge in
20 that case pointed that out.

21 That's one issue. I do feel that if you -- I mean
22 subject to Mark's, I think, informed judgment that if you do
23 the analysis correctly, as John pointed out, I don't think

1 it should make a huge difference on where you come out,
2 although I do recognize that in practice it very well may.

3 There's another apportionment issue which even as
4 a theoretical matter is a real apportionment problem and has
5 to be dealt with. And that is I'll bet in your Palm there
6 is a bunch of patents that if you did not have the rights to
7 use them you couldn't sell the Palm. And they are all
8 absolutely essential, do not have a replacement, do not have
9 a next-best alternative. The next-best alternative is you
10 don't sell your Palm. And how do you --

11 MS. DOYLE: A radio chip.

12 DR. GILBERT: So I mean it's certainly true, I
13 mean obviously it's clearly true for, say, a microprocessor.
14 There are many, many technologies in the microprocessor.
15 You have to have them or you don't make a microprocessor.
16 And how do you apportion in that case. And there it's my
17 view that you have to figure out some way to divide value
18 among different essential patents to go back. Our delta in
19 that case can be the entire value of the patent.

20 Now what Marty says is fine. If you got everybody
21 into the room, say there were a hundred essential patents,
22 and you got everyone into the room and said: Let's work
23 this out and let's figure out what each one of us should

1 have as a reasonable royalty, you might get to a reasonable
2 number where if it has the product as a value of \$100 and
3 there's a hundred patents, each one gets a dollar, or
4 something like that, or minus whatever else is needed to
5 produce the product.

6 But the problem gets, I think, particularly
7 difficult when one person pops up and says: I don't care
8 that you have a hundred essential patents to make that
9 product, I have one, and you can't sell this without my
10 patent, because I can perhaps get an injunction against your
11 sales of your product, and I think I should get half because
12 I really like my patent, and that's our starting point.
13 That's a conceivable market outcome, but I don't think it's
14 a market outcome that provides the right incentives for
15 innovation.

16 MS. MICHEL: All right. Vince, I'm going to stop
17 worrying about what apportionment means. Vince.

18 MR. O'BRIEN: Oh, okay. The situation you were
19 just describing, why wouldn't that be handled with the Palm?
20 You look at those 50 features that are necessary but not
21 sufficient. You can say what was paid in the past for
22 those. And then you say why isn't this fifty-first feature
23 in that same group, and you look at the range and you pick a

1 number out.

2 DR. GILBERT: Well, Vince, because of circularity
3 again. Remember, somebody could have gotten a really good
4 deal --

5 MR. O'BRIEN: No, but that's better than just --
6 that's better than be untethered, where you say: I want all
7 of your profits.

8 DR. GILBERT: Well, I'll agree to that, yeah, but
9 it's not the best outcome.

10 MS. MICHEL: John, and then I'll ask a wrap-up
11 question.

12 MR. SCHLICHER: As I understand the law there is
13 no rule that says the form of the claim requires that the
14 base for determining reasonable royalty damages be anything.
15 I think a court is free to do. There was an old rule in
16 some infringer lost-profits case that might lead people to
17 believe that, but I have never seen it in the reasonable-
18 royalty cases. In early reasonable-royalty cases in the
19 start of the last century, courts confronted that problem,
20 solved it, and it went away.

21 MS. MICHEL: Thank you. That's helpful.

22 MR. SCHLICHER: It should have gone away.

23 Apparently it didn't.

1 MS. MICHEL: Maybe it came back.

2 All right. I think we had some consensus on some
3 concepts here, if we don't worry too much about terminology.
4 That's where I'm coming down on this.

5 So let me ask as a wrap-up on reasonable
6 royalties: Given where we are now in this discussion that
7 we had, do juries and courts and parties need better
8 guidance on how reasonable royalties ought to be calculated?
9 And, if so, what should be the source of that guidance,
10 legislation, judges, FTC reports, and any thoughts on where
11 do we go from here?

12 Bill.

13 MR. ROOKLIDGE: Well, I'm advocate of the common
14 law process. I think the beauty of that is that instead of
15 dealing with hypotheticals we are dealing with concrete
16 facts of real cases. I think the Federal Circuit is in the
17 process of addressing this. I think we all bear a
18 responsibility whether through representing our own clients
19 in front of the court, filing amicus briefs, or whatever, to
20 speed that common law process along. And I think we can
21 make a dramatic improvement in the law of patent
22 infringement damages through that process.

23 MS. MICHEL: Mark.

1 MR. LEMLEY: What he said.

2 MS. MICHEL: Really?

3 MR. LEMLEY: Really.

4 (Laughter.)

5 MR. O'BRIEN: I agree with that, too. I'll throw
6 in my two cents here. It's interesting when you get into
7 these cases, the difference between the plaintiff's number
8 and the defendant's number usually comes down to about three
9 assumptions or three factors. Just a handful. And, you
10 know, some of those could, I thought, maybe along what Rich
11 designed, you know the judge might want to decide. We've
12 talked percentages, but is a lump sum more appropriate in
13 this matter. That would bring the parties together really
14 fast.

15 Are there substitute -- is there no other way of
16 making and selling this product or not? That would bring
17 them together.

18 At a minimum, I'd like to see a court just simply
19 say: Okay, you get your two experts in the room, have them
20 list the four key things they differ on, and that's what
21 we're going to present to the jury.

22 MS. MICHEL: Okay. John.

23 MR. SCHLICHER: I have written an article

1 describing a bill pending in the Congress that I found well
2 intentioned but problematic as leading to a better world.
3 And I said at that time and still believe I would leave it
4 to the courts. On the other hand, I wouldn't have infinite
5 patience with the courts.

6 Courts are limited by the cases they get and the
7 arguments the lawyers make. I think for too long the courts
8 have not had lots of opportunities to do things much
9 differently because the lawyers never asked them to do
10 anything differently and the lawyers don't necessarily put
11 in the evidence needed to permit them to do something
12 different, and that's a lawyer problem. We haven't done as
13 good a job helping the courts do their job. So I am
14 strongly inclined not to ask Congress to solve this problem.
15 On the other hand, if in ten years people are still having
16 this same discussion, then I would run the risk of allowing
17 Congress to solve it. Or ask -- I should say -- not
18 allowing, asking Congress to solve it.

19 MS. MICHEL: Yar.

20 MR. CHAIKOVSKY: Well, I'm generally in agreement
21 with the comments just made by everyone. Having said, I
22 don't know if ten years is the right period of time, because
23 I don't think Mary could wait ten years. And there's a lot

1 of other technology companies here that can't wait ten
2 years. So if we don't get a resolution to the problem in
3 some time less than that, whatever that time that is, and
4 whether it's five years or what-have-you, through the
5 courts, then we're in trouble.

6 I would say and whether we go into an ongoing
7 royalty discussion that cases such as the *Amato* case in
8 terms of ongoing royalties and the additional factors that
9 they set forward there, and one of them being the
10 infringer's likelihood of success on appeal, doesn't give me
11 a lot of hope that the Federal Circuit's going to be getting
12 it right or certain panels of the Federal Circuit are going
13 to be getting it right any time soon, because all they did
14 is muck that up even further.

15 And so I'm in favor of the common law. You know,
16 I'm a proponent, I'd like to see the solution there, but I
17 recognize that high-technology companies here in the valley
18 can't necessarily wait. And if see things like *Amato* come
19 down and that coming down in the future, I don't have a lot
20 of hope.

21 MS. MICHEL: Mary.

22 MS. DOYLE: So to speak as a member of that
23 industry, I think we've now waited for six years and if we

1 must wait another four I think you'll see companies go out
2 of business because there are nonpracticing entities out
3 there that are poised upon the failure of this legislation
4 to take advantage of the vacuum and leverage huge and
5 perhaps extraordinarily unaffordable for some of us
6 settlements by virtue of huge patent portfolios that may or
7 may not be infringed, who knows.

8 So in my view we've waited long enough. I have,
9 in general, every confidence in the common law, but I look
10 to the legislature to remedy abuses that are outstanding as
11 long as these have. You know the venue issues that are
12 involved here, but perhaps, most importantly, at least from
13 my perspective, the lack of clarity around damages. The
14 longer we wait the more money is going to be spent on
15 transaction costs, which add value to nobody, benefit no one
16 other than the source of those services, and many of whom
17 are sitting around this table, so it's sort of, you know, no
18 offense intended. But, in the end, we're not creating
19 value.

20 And so I have looked to the legislature. Our
21 company has, our industry has. And I think at this point we
22 will be sadly disappointed because the legislative process
23 isn't perfect either.

1 MS. MICHEL: All right. Just one question on lost
2 profits. Are the standards for establishing lost-profit
3 damages too strict? And if you think they might be, why
4 might that be a problem?

5 Mark, this is your cue.

6 MR. LEMLEY: My cue? All right. Well, I mean so
7 this is -- I have argued that one of the reasons we got into
8 the reasonable-royalty mess is that we created a bunch of
9 rules, including the entire-market-value rule but including
10 a bunch of others, convoyed sales, various got things
11 imported into reasonable royalties, because there were cases
12 that were really lost-profits cases but where the patentee
13 couldn't satisfy the fairly rigorous standards of proof that
14 have been set out in lost-profits cases.

15 I mean the most extreme examples involve cases in
16 which I've demonstrated -- a patentee who's a competitor in
17 the market has demonstrated the demand for the product.
18 They've demonstrated there isn't a noninfringing substitute,
19 that they would have made the sale, could actually have
20 manufactured the goods, but there was insufficient evidence
21 as to distinguishing out particular parts of their cost
22 structure to determine what the profit was. And so the
23 court said: Oh, well, so you haven't proven lost profits

1 because we don't know what the exact profit number is, so
2 we'll send you into the reasonable-royalty category.

3 And then when you get into the reasonable-royalty
4 category, you say: Well, oh, but, you know, boy, the
5 royalty should be pretty large because if you just give a
6 small two- or three-percent royalty, it means they're not
7 making much money and, in fact they would have lost a lot.

8 And so we add kickers to compensate for the
9 seemingly low reasonable-royalty numbers. Or we add entire-
10 market-value rule or we add convoyed sales or various other
11 things. And I think if we could more readily distinguish
12 between companies whose claim of injury was, 'I lost a sale
13 in a market in which I participate,' from companies whose
14 claim of injury is, 'I lost licensing revenue from a
15 transaction that I would have made,' we could have a more
16 rational set of damages rules for each of those cases
17 separately.

18 MS. MICHEL: Thank you.

19 Any thoughts on that? We'll move onto injunction.

20 MR. SCHLICHER: I don't --

21 MR. CHAIKOVSKY: See Seymour Wemley's (phonetic)
22 paper from 2007.

23 MS. MICHEL: Yar is in agreement then. Okay.

1 John.

2 MR. SCHLICHER: I don't think you could make the
3 standards for proving lost profits any more lenient if you
4 tried. I'm not aware of the case Mark's talking about, but
5 I think the standard is extraordinarily lenient. Indeed,
6 the only thing you can't do is prove a number by speculation
7 and guess work. Anything else seems to be okay. So I'm not
8 so sure that I think that we are having too many reasonable-
9 royalty cases because people are having trouble proving lost
10 profits, although I defer to Mark, I mean if he's seeing
11 them.

12 The only lost-profits issue that I think is
13 important is the extent to which the *Grain Processing*
14 decision applies to all lost-profits cases, not simply what
15 actually happened there, namely, an infringer who sold a
16 product and had an absolutely perfect substitute available
17 if it hadn't used the invention. The issue is whether if it
18 had an imperfect substitute, the same analysis would have
19 applied. I have seen one case that suggests to me maybe the
20 Federal Circuit doesn't know the answer to that question.

21 Frank Easterbrook knew the answer and he wrote it.
22 The answer is: The same approach applies to imperfect
23 substitutions, but I have yet to see a case that actually

1 says it. And if that's not -- if that's not the way cases
2 are being decided, then we have exactly the same problem in
3 lost profits that we've been talking about in reasonable
4 royalties. And I don't know whether the reality is that we
5 do, but I fear there is a risk that we might.

6 MS. MICHEL: Bill.

7 MR. ROOKLIDGE: I would just say that like John I
8 have a difficult time wrapping my mind around the concept of
9 loosening up damages in one area to solve damage problems in
10 another. And I'm just not there.

11 MS. MICHEL: Okay. All right. Permanent
12 injunctions. We did have a day in D.C. when we talked about
13 the four factors in great detail. One topic we'd like in
14 the short amount of time we have left today is to talk about
15 what ought to happen if a court denies the permanent
16 injunction. What then? How do we determine the ongoing
17 royalty, what kind of factors should we think about? Any
18 thoughts?

19 Yar.

20 MR. CHAIKOVSKY: Well, as I already mentioned, I
21 think we've already been provided some factors by the
22 Federal Circuit in terms of what should be thought about in
23 terms of ongoing royalty. I don't know if I'm necessarily

1 in agreement. In particular, there was one I pointed out
2 where it was kind of nonsensical in my book.

3 You know that being said, I think you saw
4 something in *Pace versus* -- you know, when you have *Pace* and
5 you have a model from the Federal Circuit where there was a
6 suggestion at least from Rader, you know, coming on early
7 that the parties should enter into negotiations first and
8 actually have negotiations as opposed to necessarily having
9 a court decide that ongoing royalty. And you've seen most
10 of these decisions post the *Pace* and the *Amato* decisions
11 with these nonpracticing entities coming down from the
12 Eastern District of Texas, although you've got a case from
13 Massachusetts, et cetera, but you've got, for example, the
14 *Telcordia* case in Delaware where actually the judge did say,
15 'Hey, parties, why don't you go negotiation and actually see
16 what you guys are able to come up with post this finding of
17 infringement.'

18 And maybe that is an answer, to see if the parties
19 can negotiate a result before we actually have a court
20 determine what the ongoing royalty should be.

21 MS. MICHEL: But parties can always go off and
22 settle. You don't have to have a court telling them to do
23 that.

1 MR. CHAIKOVSKY: Parties can. But, one, will
2 they? Two, if we then let them -- if we let them go and
3 have an ongoing royalty and, in particular, in light of --
4 we'll see what happens with *Pace* after it came back down
5 with \$98, you know, \$25 going up, not enough evidence to
6 support 25, 'Well, I'm going to come back down and give you
7 98.' You know, so when we have that, well, where's the
8 settlement likely to end up?

9 So, yes, the parties can go off and have their
10 settlement negotiation, but if you allow the court to
11 establish an ongoing royalty and that ongoing royalty is
12 based on: If we follow the case law as it exists, now we
13 already did, the expert's assuming that we've got
14 infringement and validity, but now, okay, we've got this
15 heightened -- well, now we got a jury verdict that actually
16 says that there's infringement and validity, and somehow in
17 *Amato* we're saying that's different, there's a jury verdict,
18 and even though we already made this assumption.

19 And, in fact, we've got Judge Clark in Texas
20 actually saying: I'm not going to listen to that, and we'll
21 see what happens with that. But we have other judges that
22 are actually listening to that because that's the law of the
23 Federal Circuit. And what I'm suggesting is, well, I'm not

1 sure there should be a difference. Why should there be this
2 difference, and we're going to end up with this heightened
3 awards and we're already seeing \$98, I mean, like I said,
4 coming out of *Pace*.

5 And all I'm coming down is to I don't know what
6 the factors should be, but why is it not necessarily having
7 the parties perhaps enter into a discussion before we have
8 just more factors to discuss and we've already spent time
9 today discussing how these factors are already creating a
10 problem in and of themselves.

11 MS. MICHEL: Mark.

12 MR. LEMLEY: Well, it seems to me if we get the
13 damages rules right for retrospective damages, those damages
14 rules are just right as prospectively if we've decided that
15 injunctive relief is not appropriate, right. In some cases
16 of course injunctive relief is going to be --

17 MR. CHAIKOVSKY: Big assumption.

18 MR. LEMLEY: -- appropriate, but if -- well, but
19 -- well, all right. So then the question is: If we think
20 there's some uncertainty, maybe we got the damages numbers
21 wrong, should we systematically change them now that we know
22 there's been -- you know, now that we're in a going-forward
23 royalty rather than a retrospective damages for the finding
24 of infringement and, if so, how should we change them?

1 Most of the discussion here has been I think
2 pointing in the direction that the problem with reasonable-
3 royalty damages is that they are too high in many-component-
4 industry cases for a variety of reasons. It is therefore
5 particularly odd to say, anyhow, well, if we think we don't
6 have a particularly good handle on the retrospective
7 damages, and maybe they're all too high, we'll use that as a
8 floor for the number going forward.

9 What the court in *Amato* says is the royalty on an
10 ongoing basis should be somewhere between the minimum of
11 whatever the jury awarded as past damages and the maximum of
12 whatever the patentee asked for. And if the parties don't
13 come to a deal, 'Well, Judge, choose a number somewhere
14 between those two.'

15 And in that particular case, *Amato*, the numbers
16 they used were what the jury actually awarded was four cents
17 a unit, what the patentee asked for was \$2 a unit, so
18 there's a 50-times difference between those two numbers.

19 At that point, if we start effectively making this
20 punitive, if we start saying, all right, we're going to have
21 a higher number just because this is a going-forward
22 royalty, we are granting an injunction, right. And that's
23 just bizarre, having just gone through the four-factor test
24 and saying we don't want to stop the defendant from doing

1 this. We think it's actually efficient for the defendant to
2 continue to infringe on the payment of a royalty, but we'll
3 set the damages award so high that the defendant can't
4 afford to do it.

5 MS. MICHEL: The Texas Court mentioned the
6 infringement going forward would be willful. Should that
7 play into the discussion?

8 MR. LEMLEY: I think this is actually really a
9 hard question. So the Federal Circuit hasn't resolved it.
10 They suggest in *Amato* that it's not willful, but what they
11 really suggest is willfulness is just not the right
12 question.

13 So it is the case that, going forward, the
14 defendant knows that they are infringing a valid patent,
15 right. On the other hand, it's also the case that the
16 district court has weighed the four-factor test of
17 injunctions and decided we shouldn't stop this active
18 infringement. So it is once again I think very odd to say
19 but will punish it, right.

20 And there are plausible arguments on both sides.
21 I think it is a bit odd to punish having not granted
22 injunctive relief, but I can see the argument on the other
23 side.

24 MS. MICHEL: Rich.

1 DR. GILBERT: The answer is delta. Otherwise, --

2 MS. MICHEL: Good economics.

3 DR. GILBERT: The answer to all. Otherwise you
4 are trapped in an endless loop in which royalties equals
5 damages which equal royalties, and that can be any number
6 you choose. So you really have to nail it down by trying to
7 figure out what the underlying contribution is of this
8 technology.

9 a few complications. Well, first of all, if
10 there are many essential technologies, you are necessarily
11 involved in apportionment of some kind. It could come about
12 through self-regulation of all the licensors getting around
13 and saying: Let's license this and divide the value among
14 us. But if you don't have that, it could very well require
15 a court to determine how much this patent is worth when
16 there are 99 others that are also necessary for the pump.

17 There are other complications as well, such as how
18 much of delta should go to the licensor and how much should
19 the licensee capture as consumer surplus, if you will.
20 There are probabilistic issues, there are timing issues.
21 But I think the bottom line is you need to start with delta.

22 MR. CHAIKOVSKY: If you answer it with you need to
23 start with delta, then the question I would have is why do
24 we have *Pace* and *Amato* and why is there the difference

1 between -- again, you know, the heightened focus on the jury
2 verdict's finding of infringement and -- you know.

3 DR. GILBERT: The court got it wrong.

4 MR. CHAIKOVSKY: Yeah. I mean and that's where we
5 are. And so that will harken me back to Mary's point of how
6 long is she going to wait for the common law, because this
7 is where the common law is going in the post eBay world, at
8 least with respect to damages ongoing royalty. This is
9 going to be a big issue as it goes going forward. This
10 doesn't bode well for the damages issue in general and
11 reasonable royalties in general coming out of the Federal
12 Circuit.

13 MR. ADKINSON: Vince.

14 MR. O'BRIEN: It's always interesting when you
15 look at the schizophrenia in these cases. But by not
16 granting an injunction hasn't the court really said that we
17 have economically-efficient infringement going on here? So
18 why not worry about infringement. Let's just forget about
19 that. Let's come up with a rate that's reasonable going
20 forward. You can do it the way Rich says and have a hearing
21 and the court decide what the value is. Or you can say: Go
22 negotiate. Three months from now, if you haven't had an
23 agreement, you each come in with a hearing. Each of you
24 present a number, and I'll pick one or the other.

1 You can come up with all sorts of structures like
2 that to solve this problem, instead of coming up with these
3 crazy decisions. To an economist it's frustrating to look
4 at them flounder around on this issue.

5 MR. LEMLEY: But we already did solve this
6 problem, right. There's -- you know, outside of the
7 pharmaceutical *Anda* (phonetic) cases, there is no case in
8 which you find validity and infringement where you haven't
9 already gone through a damages analysis, right. We've had
10 economic expert testimony to --

11 MR. O'BRIEN: Well, I mean you could do that. I
12 mean I just say it so that you have -- you put some pressure
13 on them to reach some kind of an agreement, hopefully that
14 they might be a little bit better than the trial outcome.

15 MR. ADKINSON: But they need to know what they're
16 negotiating in the shadow of.

17 MR. O'BRIEN: Yes. And you have to define that
18 before you send them off on their own.

19 MR. CHAIKOVSKY: And you've got a situation right
20 now where you've got, for example, certain venues that are
21 now emboldened. They in the past were giving out
22 injunctions, that injunctive risk is now gone. Well, let's
23 come out with a decision that will embolden plaintiffs to
24 continue to file here, in particular in light of some other

1 venue cases that may have come out recently.

2 So there's a lot of incentives for decisions to
3 come out the way they were are, if one were to be cynical
4 about it.

5 MS. DOYLE: The injunction risk isn't gone if you
6 look at the ITC as another venue, incidentally.

7 MR. CHAIKOVSKY: The injunction risk is a hundred
8 percent there. So, yes, it's not gone at all.

9 MS. DOYLE: Right. And NPEs are now resorting to
10 that venue on the grounds that their business in the United
11 States is licensing.

12 MR. CHAIKOVSKY: And we're going to see more of
13 that: *Zaxxon Innovations*, Gertrude Rothschild, et cetera,
14 they're all going to take part into -- until we get to a
15 hearing, and that's with Zaxxon and that's with Gertrude,
16 until we get the result that actually has a domestic
17 industry, we have the case law from the '90s really on
18 forward that a licensing component is sufficient, is the
19 *Zaxxon* case, which I know you guys having played a part in,
20 is that enough, where you've got two employees and two part-
21 time employees and you're holding to build up your license
22 program; is that enough? I don't know, but, yes, you're
23 going to see them run there.

24 If they're not going to get relief elsewhere, NPEs

1 are going to run to the ITC because of the speed, because of
2 the injunctive risk. I can sue 40 people at once. Not
3 beyond the scope here, but there's a lot of places for them
4 to go, and the ITC is a beautiful place.

5 MR. ADKINSON: John.

6 MR. SCHLICHER: Only one comment. I mentioned
7 injunctions earlier and I might have -- what I said might be
8 understood to imply that I believe injunctions should issue
9 in all patent cases. I'm going to submit written comments
10 in which I will explain as best I can the cases in which I
11 think an injunction should be denied and what I think ought
12 to happen after an injunction is denied. So I will deal
13 with this in writing. This is not a simple problem.

14 On the question of willful infringement, I trust
15 it will occur to lawyers to ask the judge to enter -- to
16 specify in the order denying the injunction that the judge
17 has authorized the defendant to continue to sell that
18 product under whatever conditions the court specifies in the
19 order or the parties otherwise agree to, so that willfulness
20 -- willful infringement absolutely positively disappears,
21 because if you don't do that, of course you've totally
22 defeated the whole purpose of the judge in denying the
23 injunction.

24 MR. ADKINSON: Just to quickly go right up, if we

1 could, and ask people if could react, since we didn't have a
2 time to talk about injunctions generally, just quickly what
3 your thoughts are on the impact of eBay and on the impact of
4 the ITC on the effectiveness of eBay.

5 MR. CHAIKOVSKY: So the impact of eBay, well, I
6 mean I think you had something -- I don't know, pre eBay,
7 maybe someone else here has the statistics in terms of 90,
8 whatever, percent. But we've done an analysis of the
9 decisions post eBay and I think you're getting competitor
10 versus competitor. You're ending up with 80 percent, so
11 you're still, you know, more likely than not, four out of
12 five times, to be getting an injunction in a competitor-
13 versus-competitor situation.

14 In a noncompetitor situation you've only had one
15 out of eight that I'm aware of be granted, that one being
16 CSIRO getting the injunction. That doesn't mean that
17 CSIRO's going to get. I mean it's only gone up on validity
18 issues. It's come back down on validity issues. We'll see
19 if CSIRO does continue to get it. Obviously there's a
20 concurring opinion that research institutes, et cetera,
21 universities should be entitled to perhaps getting
22 injunctions, and that's what the Eastern District of Texas
23 relied upon there, so we'll see CSIRO.

24 And, quite frankly, we're seeing the proliferation

1 of universities now suing the likes of high-tech companies
2 and lots of plaintiffs' attorneys looking for universities
3 to sue high-tech companies because they think they're going
4 to get an injunction.

5 So that's the world we're ending up with, with
6 *CSIRO* being out there until it's overturned by the Federal
7 Circuit or until the Federal Circuit blesses it, and that'll
8 just make research institutes go forward.

9 That being said, also the ITC, I already commented
10 on the fact, I mean if I'm an NPE I take advantage of that
11 currently. There's absolutely no reason not to take
12 advantage of it given the current case law. I mean if
13 you've got not licenses you can even take the time during
14 the course of the hearing, during the ten months to get up
15 enough licenses so by the time you get to the hearing,
16 absent a summary determination motion on DI, that you
17 actually might have a chance to actually prove up the DI if
18 someone doesn't take it to task early.

19 MR. ADKINSON: Anyone else on eBay?

20 MR. LEMLEY: I think I think it's a substantial
21 step in the right direction. It's helped significantly. As
22 Yar suggested, it's actually mostly parsed out into
23 competitor cases versus NPE cases, despite the reference to
24 no generalized rules. I think there are some things that

1 are -- there are some decisions that are problematic.
2 *CSIRO*, I think -- the district court decision in *CSIRO* is a
3 crazy outlier. It's already been reversed on other grounds.
4 Maybe it will be reinstated as a crazy outlier, but
5 hopefully not.

6 On the other side, the Federal Circuit decision in
7 *Voda versus Cordis* I think unfairly lumps in exclusively
8 licensors with the nonpracticing entities who cannot get
9 injunction relief, and I think that's a mistake. It's just
10 a kind of bad application of equity law.

11 MS. MICHEL: One question about the *CSIRO* case.
12 My understanding is that the research institute had made a
13 RAND commitment to a standard-setting body.

14 MS. DOYLE: Yes.

15 MR. LEMLEY: Yes.

16 MS. MICHEL: And any thoughts on whether an
17 injunction should ever be available in that context?

18 MR. LEMLEY: Yeah. So I mean I am of the view
19 that if you enter into a RAND commitment that is properly
20 structured in the standard-setting organization, that you've
21 entered into an enforceable contract, right. If you
22 remember your first-year contract law, one of the things you
23 do not have to have an enforceable contract is a price term.
24 And so I think if you've entered into a RAND deal you have

1 licensed your patent and it remains to be discussed --
2 remains to be decided by a court what a reasonable price is
3 at which you've licensed that patent.

4 MR. ADKINSON: Marty.

5 MR. SIMPSON: Well, I wanted to point out that you
6 may have a research institute or a university that may be
7 the only party with standing to sue. And if that's the
8 case, then there may be a restricted number of licenses as
9 opposed to -- and there may be some field-abuse licenses in
10 there. So you may have the research university needed in
11 there. So I think injunction ought to be available to the
12 judge when they look at it and they think, okay, if that's
13 --

14 MR. LEMLEY: Right, and that's the *Voda versus*
15 *Cordis* problem, right, that the Federal Circuit said, no,
16 sorry, you can't do it. But I think that's wrong.

17 MS. MICHEL: We're about out of time. I'll give
18 everybody a chance for any last comments.

19 Thank you. You've been a wonderful panel. I
20 think this is has been very informative and has actually
21 advanced the debate, which was the goal. Thank you very
22 much.

23 And the record remains open till May 15th. We'll
24 take your comments and give us a call. Thank you.

1 (Applause. Whereupon, the hearing was concluded
2 at 4:34 p.m.)
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