U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1895

JULY 6, 2010

PROJECT M-T052

The following classification changes will be effected by this order:

	Class	Subclass	Art Unit	Ex'r Search Room
Abolished:	342	357.01-357.09, 357.1, 357.11-357.17	3662	OS0001
Established:	342	357.2, 357.21-357.29, 357.3, 357.31-357.39, 357.395, 357.4, 357.41-357.49, 357.51-357.59, 357.61-357.69, 357.71-357.78	3662	OS0001

The following classes are also impacted by this order:

340, 380

This order includes the following:

A. CLASSIFICATION MANUAL CHANGES

B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1893

JULY 6, 2010

PROJECT M-T052

Project Leader(s):	Joseph Falk
Examiner(s):	Gregory Issing
Editor(s):	Elma La Touche
Publications Specialist(s):	Louise Bogans

1 **RADIO WAVE ABSORBER**
2 .For aircraft or missile
3 .For camouflage
4 .With particular geometric configuration
5 **RADAR REFLECTOR**
6 .With modulation
7 .Corner
8 ..Inflatable or collapsable
9 ..Decoy or tow target
10 .Inflatable or collapsable
11 .With spherical lens (e.g., Luneberg lens)
12 .Chaff
13 **RADAR EW (ELECTRONIC WARFARE)**
14 .ECM (Electronic countermeasures, i.e., jamming)
15 ..With repeater
16 .ECCM (Electronic counter-countermeasures, i.e., antijamming)
17 ..Radar reacts to jamming
18 ...By changing frequency
19 ...By varying gain or blocking receiver
20 .Detection of surveilance
21 **BASE BAND SYSTEM**
22 **TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR FREE SPACE**
23 **BERTHING OR DOCKING**
24 **BLIND AID**
25 R **SYNTHETIC APERTURE RADAR**
25 A .Mapping or imaging using synthetic aperture radar (EPO)
25 B ..Specially adapted for moving target detection (EPO)
25 C ..Combined with monopulse or interferometric (EPO)
25 D ..With frequency domain processing of the SAR signals in azimuth (EPO)
25 E ..With time domain processing of the SAR signals in azimuth, e.g. time focusing (EPO)
25 F ..Particular SAR processing techniques (e.g., squint mode, doppler beam-sharpening mode, spotlight mode, bistatic SAR, inverse SAR) (EPO)
26 R **Radar for meteorological use (EPO)**
26 A .Mounted on satellite (EPO)
26 B .Mounted on aircraft (EPO)
26 C .Mounted on ship (EPO)
26 D .Ground based (EPO)
27 **PRESENCE DETECTION ONLY**
28 .By motion detection
29 **AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)**
30 .With transponder
31 ..Including synchronized clock
32 ..Included in Secondary Surveilance Radar (SSR) or Air Traffic Control Radio Beacon System (ATCRBS)
33 **AIRCRAFT LANDING SYSTEM**
34 .Ground control approach (GCA)
35 .Microwave landing system (MLS)
36 **AIR TRAFFIC CONTROL**
37 .Secondary Surveilance Radar (SSR) or Air Traffic Control Radar Beacon System (ATCRBS)
38 ..With altitude information
39 ..With side lobe suppression
40 ..With defruiting or degarbling
41 **SHIP COLLISION AVOIDANCE**
42 **RADAR TRANSPONDER SYSTEM**
43 .Combined with primary radar system
44 .Unique identity
45 .IFF or SIF
46 .Navigational
47 ..Distance measuring equipment (DME)
48 ...With automatic lock-on
49 ...With VOR/TACAN
50 .With Telemetry
51 .Radar transponder only
52 **COMBINED WITH DIVERSE TYPE RADIANT ENERGY SYSTEM**
53 .With infrared device
54 .With laser
55 .With television
56 .With direction finding
57 .With radio voice communication
58 .With transmission to a remote station
59 **PLURAL RADAR**
60 **TRANSMITTING INTELLIGENCE**
61 **RETURN SIGNAL CONTROLS EXTERNAL DEVICE**
62 .Missile or spacecraft guidance
63 .Aircraft guidance
64 ..With map matching
65 ..With terrain avoidance or alarm
66 .Camera

67 .Gun (e.g., fire control)
68 .Proximity fuze
69 .Device actuated by presence of land vehicle
70 .Radar mounted on and controls land vehicle
71 ..With control of brakes or steering
72 ..With control of safety device (e.g., air bags)
73 **RETURN SIGNAL CONTROLS RADAR SYSTEM**
74 .Antenna control
75 ..Physical orientation
76 ...With ground tracking
77 ...With signal error correction
78 ...Conical scan
79 ...Lobe switching
80 ...Monopulse
81 ..Beam direction by phase or frequency control
82 .Transmitter
83 ..Signal phase or frequency other than pulse repetition frequency (PRF)
84 ...Function of doppler frequency
85 ...Function of distance
86 ....With constant phase
87 ....With constant beat frequency
88 ..Transmission timing (e.g., ring around)
89 .Receiver
90 ..Automatic target detection
91 ..Gain or threshold
92 ...Automatic gain control (AGC)
93 ...Constant false alarm rate (CFAR)
94 ..Gating
95 ...Automatic range tracking
96 ....Automatic track while scan (ATWS)
97 ....With automatic lock-on
98 ..Frequency
99 ...Doppler frequency tracking
100 ....With local oscillator control
101 ....With filter control
102 ...Phase
103 ....Phase locked loop
104 **DETERMINING VELOCITY**
105 .Other than doppler (e.g., range rate)
106 .Combined with determining acceleration
107 .Combined with determining distance and direction
108 ..With correlation
109 .Combined with determining distance
110 ..With plural fixed range gates
111 ..With plural receiver frequency band separation
112 ..With plural frequencies transmission
113 .Combined with determining direction (i.e., bearing)
114 .Combined with determining sense of motion (i.e., approaching or receding)
115 .Digital
116 .With plural received frequency band separation
117 .With plural beams (e.g., "Janus")
118 **DETERMINING DISTANCE**
119 .Miss distance indicator (MDI)
120 .Altimeter
121 ..With additional indicator
122 ..FM type
123 .Height finder
124 .Material level within container
125 .With remote cooperating station
126 .Triangulation
127 .Phase comparison
128 .With frequency modulation
129 ..Plural frequencies transmitted
130 ..Plural modulation
131 ...Combined with pulse modulation (e.g., frequency agile)
132 ....With pulse modulation (e.g., "Chirp")
133 ..Combined with determining direction
134 .With pulse modulation
135 ..Digital (e.g., with counter)
136 ...With plural fixed range gates
137 ..With variable pulse repetition frequency (PRF) or pulse width
138 ..With type "A" or "J" range scope
139 ..Combined with determining direction
140 ...With azimuth and elevation determination
141 ...Off boresight
142 ...With CRT display
143 ....Plural

144 ....PPI type
145 .With correlation
146 .Combined with determining direction
147 **DETERMINING DIRECTION**
148 .Low angle processing
149 .Monopulse
150 ..With common IF channel
151 ..With channel equalization
152 ..With quadrature difference processing
153 ..With particular antenna or waveguide
154 ..Combined with beam steering
155 .Lobe switching
156 .Interferometer
157 .With frequency or phase steering
158 .Scanning
159 **CLUTTER ELIMINATION**
160 .MTI (Moving target indicator)
161 ..With vehicle movement compensation (e.g., AMTI (Airborn MTI))
162 ..Digital
163 ..With blind speed elimination
164 ..With storage tube
165 **TESTING OR CALIBRATING OF RADAR SYSTEM**
166 .Proximity fuze
167 .With laser
168 .With noise generation
169 .By simulation
170 ..Microwave
171 ..Doppler
172 ..With delay
173 .By monitoring
174 ..Calibrating
175 **WITH PARTICULAR CIRCUIT**
176 .Display
177 ..Plural
178 ..Projection type
179 ..Image production
180 ..Stereoscopic or tridimensional
181 ..Color
182 ..Electronic marker generation
183 ...Cursor
184 ..With stabilization (e.g., True Motion, True North)
185 ..Scan conversion
186 ..With sweep expansion
187 .Augmenter
188 .With polarization
189 .For correlation
190 .With recording
191 ..Mapping
192 .Spectrum analysis
193 ..Harmonic
194 .Complex signal (in phase and quadrature)
195 .Digital processing
196 ..Fast fourier transform (FFT)
197 ..With video quantizer
198 .For receiver protection
199 .Automatic frequency control (AFC)
200 .For frequency modulation
201 ..Combined with pulse modulation
202 .For pulse modulation
203 ..With noise reduction
204 ..With pulse shaping
205 .Sensitivity time control (STC)
350 **DIRECTIVE**
351 .Including a radiometer
352 .Including a satellite
353 ..Having a signal repeater
354 ..With beam steering
355 ..With control of satellite attitude
356 ..Synchronous satellite
357.2 ..With position, velocity, or attitude determination (IPC)
357.21 ...Determining a navigation solution using signals transmitted by a satellite radio beacon positioning system
357.22 ....Satellite radio beacon positioning system transmitting time-stamped messages; e.g., GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO (IPC)
357.23 .....Correcting position, velocity, or attitude
357.24 ......Differential correction; e.g., DGPS [differential GPS] (IPC)
357.25 .....Determining position (IPC)
357.26 ......Using carrier phase measurements; e.g., kinematic positioning; using long or short baseline interferometry (IPC)

357.27 .....Carrier phase ambiguity resolution; floating ambiguity; LAMBDA [Least-squares AMBiguity Declaration Adjustment] method (IPC)
357.28 .....By combining measurements of signals from the satellite radio beacon positioning system with a supplementary measurement (IPC)
357.29 .....The supplementary measurement being of a radio-wave signal type (IPC)
357.3 .....The supplementary measurement being an inertial measurement; e.g., tightly coupled inertial (IPC)
357.31 .....By combining or switching between position solutions derived from the satellite radio beacon positioning system and position solutions derived from a further system (IPC)
357.32 .....Whereby the further system is an inertial position system; e.g., loosely coupled (IPC)
357.33 .....Whereby the position solution is constrained to lie upon a particular curve or surface; e.g., for locomotives on railway tracks (IPC)
357.34 .....Relative positioning (IPC)
357.35 .....Determining velocity (IPC)
357.36 .....Determining attitude (IPC)
357.37 .....Using carrier phase measurements; using long or short baseline interferometry (IPC)
357.38 .....Carrier phase ambiguity resolution; floating ambiguity; LAMBDA [Least-squares AMBiguity Declaration Adjustment] method)
357.39 ...Satellite radio beacon positioning system transmitting time-stamped messages; e.g. GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO (IPC)
357.395 ....Details of the space or ground control segments (IPC)
357.4 ....Cooperating elements; interaction or communication between different cooperating elements or between cooperating elements and receivers (IPC)
357.41 .....Providing carrier phase data (IPC)
357.42 .....Providing aiding data (IPC)
357.43 .....Employing an initial estimate of the location of the receiver as aiding data or in generating aiding data (IPC)
357.44 .....Providing data for correcting measured positioning data; e.g., DGPS [differential GPS] or ionosphere corrections (IPC)
357.45 .....Providing integrity information; e.g., health of satellites or quality of ephemeris data (IPC)
357.46 .....Providing processing capability normally carried out by the receiver (IPC)
357.47 .....Providing dedicated supplementary positioning signals (IPC)
357.48 .....Wherein the cooperating elements are pseudolites or satellite radio beacon positioning system signal repeaters (IPC)
357.49 .....Wherein the cooperating elements are telecommunication base stations (IPC)
357.51 ....Receivers (IPC)
357.52 .....Specially adapted for specific applications (IPC)
357.53 .....Aircraft landing systems (IPC)
357.54 .....Anti-theft; abduction (IPC)
357.55 .....Emergency applications (IPC)
357.56 .....Military applications (IPC)
357.57 .....Sporting applications (IPC)
357.58 .....Integrity monitoring, fault detection or fault isolation of space segment (IPC)
357.59 .....Interference-related issues (IPC)
357.61 .....Multipath-related issues (IPC)

357.62 .....Testing, monitoring, correcting or calibrating of a receiver element (IPC)
357.63 .....Acquisition or tracking of signals transmitted by the system (IPC)
357.64 ......Involving aiding data received from a cooperating element; e.g., assisted GPS (IPC)
357.65 ......Involving a sensor measurement for aiding acquisition or tracking (IPC)
357.66 ......Creating, predicting or correcting ephemeris or almanac data within the receiver (IPC)
357.67 ......Satellite selection (IPC)
357.68 ......Carrier related (IPC)
357.69 ......Code related (IPC)
357.71 .....Acquisition or tracking of other signals for positioning (IPC)
357.72 .....Multimode operation in a single same satellite system; e.g., GPS L1/L2 (IPC)
357.73 .....Multimode operation in different systems which transmit time-stamped messages; e.g., GPS/GLONASS (IPC)
357.74 .....Power consumption
357.75 .....Constructional details or hardware or software details of the signal processing chain (IPC)
357.76 ......Relating to the receiver frond end (IPC)
357.77 ......Hardware or software details of the signal processing chain (IPC)
357.78 ...Using Doppler frequency shift
358 ..With satellite signal correction
359 .Including antenna orientation
360 .Including antenna pattern plotting
361 .Including polarized signal communication transmitter or receiver
362 ..Receiver only
363 ...Circular
364 ...Eliptical
365 ..Circular
366 ..Eliptical
367 .Including directive communication system
368 .Including a steerable array
369 ..Injection radiation type
370 ..Retrodirective
371 ..With electronic scanning
372 ...Controlled
373 ..With a matrix
374 ..With a switch
375 ..With a delay line (e.g., serpentine transmission line, frequency scanning)
376 ..Including a remote energy source
377 ..Including a computer
378 .Utilizing correlation techniques
379 ..Side lobe elimination
380 ...Sum of each antenna channel signal
381 ...Difference of each antenna channel signal
382 ...Mixing each antenna channel signal
383 ..Sum of each antenna signal
384 ..Difference of each antenna channel signal
385 .Beacon or receiver
386 ..With transmisson of bearing or position determinative signals
387 ...Iso-chronic type
388 ....Loran
389 .....Loran-C
390 ......With cycle selection
391 .....Loran-A
392 ....With automatic gain control
393 ...Iso-frequency type
394 ...Iso-phase type
395 ....With hetrodyne synchronization
396 ....Omega
397 ....Decca
398 ...Rotating beacon signal
399 ...Tacan
400 ....Receiver only
401 .....VOR
402 ......Doppler
403 ....With circular array of antennas
404 ....VOR
405 .....Doppler
406 ......With circular array of antennas
407 ...Fixed course or bearing indicating

408 ....Moving beam
409 ....With superimposed images
410 ....Glide slope transmitter or receiver
411 .....Receiver only
412 .....Transmitter only
413 ....Localizer transmitter or receiver
414 ....Distinctive frequencies equi-signal type
415 .....Coded equi-signal (e.g., A and N type)
416 .....Sequentially effective reflectors
417 ..Direction-finding receiver only
418 ...Doppler
419 ...Portable
420 ...With error or deviatioan compensator or eliminator
421 ....Pulse-type noise elimination or compensation (e.g., sky waves)
422 ...With self-orienting antenna pattern
423 ....Plural antennas
424 .....Tracking interferometer
425 ....Conical scan antenna type
426 ....Step track antenna type
427 ....Monopulse or pseuodo monopulse tracking antenna type
428 ...With continuously movable antenna pattern
429 ....Including a stationary antenna
430 ....Including plural moving antennas
431 ....Including a goniometer
432 ...With plural fixed antenna pattern comparing
433 ....Successively commutated
434 .....Including more than two antennas
435 .....By diode switching
436 .....By modulation
437 ....Including more than two antennas
438 ....Including separate indicators
439 ....Including combined effect indicator
440 ....Including a goniometer
441 ...Having a goniometer
442 ...Having a phase detector
443 ...Having a direction indicator
444 ...Having plural receivers
445 ...Having more than two antennas
446 ....Unequal distance between at least three antennas
447 ...Having a spiral antennas
448 ...Having a coil or loop type antenna
449 ...Having a moving antenna
450 .Position indicating (e.g., triangulation)
451 ..By computer
452 ..By plotting table
453 ..By deflected or repeated signal
454 ..Traffic
455 ...Having collision avoidance
456 ...Having traffic control
457 ..Land vehicle location (e.g., bus, police car
458 ..Distance
459 ..Underground object location
460 ..Storm or atomic explosion location
461 ..With speed determination
462 ..With altitude determination
463 ..Having plural transmitters or receivers
464 ...Plural transmitters only
465 ...Plural receivers only

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

JULY 6, 2010

PROJECT M-T052

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
342/357.2	1	342/357.02	196
	1	342/357.05	29
	1	342/357.06	258
	1	342/357.1	118
	6	342/357.01	59
	9	342/357.16	22
342/357.21	1	342/357.06	258
	1	342/357.1	118
	1	342/357.16	22
	1	342/357.17	36
	2	342/357.03	99
	2	342/357.04	38
	6	342/357.01	59
	7	342/357.02	196
342/357.22	1	342/357.12	253
	1	342/357.13	87
	1	342/357.17	36
	2	342/357.09	155
	3	342/357.06	258
	6	342/357.02	196
342/357.23	1	342/357.04	38
	1	342/357.08	104
	2	342/357.03	99
	2	342/357.05	29
	2	342/357.06	258
	2	342/357.15	147
	3	342/357.09	155
	4	342/357.12	253
	13	342/357.02	196
342/357.24	1	342/357.04	38
	1	342/357.11	43
	1	342/357.12	253
	2	342/357.02	196
	3	342/357.06	258
	12	342/357.03	99
342/357.25	1	342/357.03	99
	1	342/357.07	95
	1	342/357.08	104
	1	342/357.14	70
	1	342/357.17	36
	2	342/357.01	59
	4	342/357.05	29
	4	342/357.1	118

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	5	342/357.13	87
	6	342/357.09	155
	7	342/357.02	196
	7	342/357.06	258
	10	342/357.15	147
	16	342/357.12	253
342/357.26	2	342/357.04	38
	3	342/357.06	258
	3	342/357.08	104
	5	342/357.12	253
342/357.27	1	342/357.07	95
	1	342/357.09	155
	1	342/357.15	147
	1	342/357.17	36
	2	342/357.01	59
	4	342/357.11	43
	4	342/357.12	253
	5	342/357.14	70
	7	342/357.08	104
	10	342/357.02	196
	11	342/357.06	258
	12	342/357.03	99
	17	342/357.04	38
342/357.28	1	342/357.02	196
	1	342/357.04	38
	1	342/357.06	258
	1	342/357.11	43
	1	342/357.14	70
	2	342/357.15	147
	3	342/357.08	104
342/357.29	1	342/357.07	95
	1	342/357.08	104
	1	342/357.11	43
	1	342/357.13	87
	1	342/357.16	22
	1	342/357.17	36
	3	342/357.01	59
	4	342/357.14	70
	5	342/357.03	99
	5	342/357.09	155
	5	342/357.1	118
	8	342/357.15	147
	13	342/357.02	196

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	14	342/357.12	253
	19	342/357.06	258
342/357.3	1	342/357.08	104
	1	342/357.11	43
	1	342/357.12	253
	2	342/357.06	258
	2	342/357.13	87
	3	342/357.14	70
342/357.31	4	342/357.11	43
	5	342/357.04	38
	8	342/357.15	147
	9	342/357.01	59
	9	342/357.12	253
	11	342/357.17	36
	15	342/357.1	118
	22	342/357.14	70
	24	342/357.02	196
	24	342/357.08	104
	26	342/357.03	99
	26	342/357.07	95
	28	342/357.06	258
	31	342/357.09	155
	31	342/357.13	87
342/357.32	1	342/357.02	196
	1	342/357.11	43
	1	342/357.12	253
	1	342/357.13	87
	1	342/357.17	36
	2	342/357.03	99
	2	342/357.08	104
	3	342/357.06	258
	13	342/357.14	70
342/357.33	1	342/357.07	95
	2	342/357.06	258
	2	342/357.08	104
	2	342/357.09	155
	3	342/357.13	87
342/357.34	1	342/357.05	29
	1	342/357.13	87
	2	342/357.17	36
	3	342/357.06	258
	3	342/357.07	95
	3	342/357.1	118

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	17	342/357.08	104
342/357.35	1	342/357.05	29
	1	342/357.07	95
	1	342/357.15	147
	1	342/357.17	36
	2	342/357.08	104
	3	342/357.06	258
342/357.36	1	342/357.05	29
	1	342/357.07	95
	1	342/357.15	147
	2	342/357.01	59
	2	342/357.03	99
	2	342/357.17	36
	3	342/357.08	104
	3	342/357.12	253
	4	342/357.06	258
	4	342/357.14	70
	11	342/357.11	43
342/357.37	1	342/357.04	38
	1	342/357.09	155
	1	342/357.14	70
	2	342/357.16	22
	7	342/357.11	43
342/357.38	2	342/357.04	38
	4	342/357.11	43
342/357.395	1	342/357.1	118
	1	342/357.11	43
	1	342/357.13	87
	1	342/357.14	70
	2	342/357.07	95
	2	342/357.08	104
	3	342/357.01	59
	3	342/357.09	155
	4	342/357.06	258
	5	342/357.02	196
342/357.4	1	342/357.03	99
	1	342/357.15	147
	1	342/357.17	36
	2	342/357.08	104
	4	342/357.02	196
	4	342/357.12	253
	5	342/357.13	87

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	6	342/357.06	258
	6	342/357.07	95
	9	342/357.09	155
	13	342/357.1	118
342/357.41	1	342/357.11	43
	1	342/357.12	253
	1	342/357.14	70
	2	342/357.03	99
	4	342/357.08	104
	6	342/357.06	258
342/357.42	1	342/357.01	59
	1	342/357.04	38
	1	342/357.07	95
	1	342/357.13	87
	2	342/357.05	29
	2	342/357.08	104
	4	342/357.03	99
	4	342/357.06	258
	4	342/357.12	253
	6	342/357.1	118
	7	342/357.02	196
	12	342/357.09	155
	20	342/357.15	147
342/357.43	1	342/357.05	29
	1	342/357.12	253
	2	342/357.02	196
	2	342/357.03	99
	2	342/357.15	147
	3	342/357.01	59
	3	342/357.13	87
	3	342/357.14	70
	4	342/357.06	258
	6	342/357.1	118
	8	342/357.09	155
342/357.44	1	342/357.01	59
	1	342/357.15	147
	1	342/357.16	22
	2	342/357.09	155
	3	342/357.06	258
	8	342/357.02	196
	11	342/357.03	99
342/357.45	1	342/357.03	99
	1	342/357.15	147

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	6	342/357.02	196
342/357.46	1	342/357.02	196
	1	342/357.05	29
	1	342/357.14	70
	1	342/357.15	147
	2	342/357.1	118
	2	342/357.13	87
	6	342/357.06	258
	6	342/357.07	95
	8	342/357.12	253
	11	342/357.09	155
342/357.48	1	342/357.1	118
	1	342/357.11	43
	1	342/357.16	22
	2	342/357.03	99
	2	342/357.07	95
	2	342/357.14	70
	2	342/357.17	36
	3	342/357.08	104
	4	342/357.02	196
	4	342/357.09	155
	4	342/357.15	147
	6	342/357.01	59
	6	342/357.06	258
	11	342/357.12	253
342/357.51	1	342/357.05	29
	1	342/357.1	118
	1	342/357.17	36
	2	342/357.09	155
	2	342/357.13	87
	5	342/357.06	258
342/357.52	1	342/357.03	99
	1	342/357.05	29
	1	342/357.09	155
	2	342/357.02	196
	2	342/357.12	253
	2	342/357.14	70
	2	342/357.17	36
	4	342/357.15	147
	5	342/357.08	104
	6	342/357.07	95
	6	342/357.1	118

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SOURCE CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	7	342/357.06	258
	9	342/357.13	87
342/357.53	1	342/357.06	258
	1	342/357.07	95
	1	342/357.08	104
342/357.54	3	342/357.07	95
342/357.55	1	342/357.02	196
	1	342/357.12	253
	2	342/357.01	59
	3	342/357.06	258
	4	342/357.1	118
	8	342/357.09	155
	13	342/357.07	95
342/357.56	1	342/357.02	196
	1	342/357.06	258
342/357.57	1	342/357.01	59
	1	342/357.03	99
	1	342/357.05	29
	1	342/357.11	43
	2	342/357.1	118
	2	342/357.12	253
	2	342/357.15	147
	2	342/357.17	36
	3	342/357.09	155
	4	342/357.02	196
	4	342/357.08	104
	5	342/357.13	87
	8	342/357.07	95
	12	342/357.06	258
342/357.58	1	342/357.12	253
	1	342/357.13	87
	2	342/357.03	99
	2	342/357.15	147
	3	342/357.06	258
	11	342/357.02	196
342/357.59	1	342/357.04	38
	1	342/357.13	87
	1	342/357.16	22
	2	342/357.08	104
	2	342/357.14	70
	3	342/357.15	147
	4	342/357.09	155
	4	342/357.11	43

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SOURCE CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	5	342/357.1	118
	12	342/357.06	258
	12	342/357.12	253
	14	342/357.02	196
342/357.61	1	342/357.03	99
	1	342/357.09	155
	1	342/357.15	147
	3	342/357.02	196
	3	342/357.06	258
	3	342/357.08	104
	6	342/357.12	253
342/357.62	1	342/357.04	38
	1	342/357.05	29
	1	342/357.08	104
	1	342/357.14	70
	2	342/357.03	99
	3	342/357.01	59
	5	342/357.09	155
	6	342/357.1	118
	8	342/357.15	147
	18	342/357.02	196
	20	342/357.06	258
	27	342/357.12	253
342/357.63	1	342/357.02	196
	1	342/357.04	38
	1	342/357.05	29
	1	342/357.13	87
	5	342/357.1	118
	6	342/357.06	258
	14	342/357.15	147
	23	342/357.12	253
342/357.64	1	342/357.07	95
	2	342/357.13	87
	2	342/357.17	36
	3	342/357.03	99
	3	342/357.08	104
	3	342/357.16	22
	4	342/357.01	59
	5	342/357.02	196
	10	342/357.09	155
	14	342/357.15	147
	15	342/357.06	258
	17	342/357.1	118

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SOURCE CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	17	342/357.12	253
342/357.65	1	342/357.13	87
	2	342/357.05	29
	2	342/357.12	253
	2	342/357.14	70
	4	342/357.15	147
342/357.66	1	342/357.1	118
	1	342/357.12	253
	2	342/357.02	196
	2	342/357.08	104
	3	342/357.09	155
	3	342/357.15	147
342/357.67	1	342/357.01	59
	1	342/357.05	29
	1	342/357.06	258
	1	342/357.09	155
	14	342/357.15	147
342/357.68	1	342/357.03	99
	1	342/357.08	104
	1	342/357.13	87
	2	342/357.01	59
	2	342/357.05	29
	3	342/357.06	258
	7	342/357.02	196
	7	342/357.15	147
	12	342/357.12	253
342/357.69	1	342/357.01	59
	1	342/357.02	196
	1	342/357.04	38
	1	342/357.06	258
	1	342/357.09	155
	3	342/357.15	147
	15	342/357.12	253
342/357.71	1	342/357.14	70
342/357.72	1	342/357.04	38
	2	342/357.06	258
	7	342/357.12	253
342/357.73	1	342/357.09	155
	1	342/357.15	147
	2	342/357.12	253
	3	342/357.06	258
342/357.74	1	342/357.01	59
	1	342/357.02	196

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SOURCE CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	1	342/357.09	155
	1	342/357.1	118
	1	342/357.13	87
	1	342/357.15	147
	1	342/357.17	36
	2	342/357.08	104
	4	342/357.07	95
	7	342/357.12	253
	10	342/357.06	258
342/357.75	1	342/357.02	196
	1	342/357.03	99
	1	342/357.17	36
	2	342/357.05	29
	2	342/357.15	147
	3	342/357.13	87
	6	342/357.07	95
	7	342/357.09	155
	7	342/357.12	253
	9	342/357.06	258
	10	342/357.1	118
342/357.76	1	342/357.02	196
	1	342/357.09	155
	1	342/357.15	147
	1	342/357.16	22
	2	342/357.1	118
	4	342/357.06	258
	5	342/357.12	253
342/357.77	1	342/357.02	196
	1	342/357.07	95
	1	342/357.17	36
	2	342/357.05	29
	2	342/357.06	258
	2	342/357.13	87
	16	342/357.12	253
342/357.78	1	342/357.05	29
	1	342/357.17	36
	2	342/357.16	22
701/209	1	342/357.13	87

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DISPOSITION CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
342/357.03	99	342/357.41	2
342/357.17	36	342/357.51	1
342/357.05	29	342/357.51	1
342/357.01	59	342/357.55	2
342/357.1	118	342/357.74	1
342/357.15	147	342/357.75	2
342/357.16	22	342/357.37	2
342/357.11	43	342/357.41	1
342/357.06	258	342/357.44	3
		342/357.53	1
		342/357.73	3
342/357.17	36	342/357.22	1
342/357.03	99	342/357.32	2
342/357.13	87	342/357.33	3
		342/357.34	1
342/357.14	70	342/357.37	1
342/357.12	253	342/357.4	4
342/357.1	118	342/357.52	6
342/357.05	29	342/357.57	1
342/357.12	253	342/357.72	7
342/357.13	87	342/357.22	1
342/357.06	258	342/357.25	7
342/357.02	196	342/357.45	6
342/357.09	155	342/357.57	3
342/357.06	258	342/357.68	3
342/357.12	253	342/357.69	15
342/357.05	29	342/357.77	2
342/357.03	99	342/357.21	2
342/357.08	104	342/357.35	2
342/357.12	253	342/357.36	3
342/357.15	147	342/357.44	1
342/357.07	95	342/357.55	13
342/357.01	59	342/357.57	1
342/357.09	155	342/357.67	1
342/357.06	258	342/357.76	4
342/357.02	196	342/357.21	7
342/357.11	43	342/357.3	1
342/357.02	196	342/357.44	8
342/357.13	87	342/357.57	5
342/357.1	118	342/357.63	5
342/357.06	258	342/357.74	10
342/357.01	59	342/357.21	6
342/357.14	70	342/357.29	4

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DISPOSITION CLASSIFICATION(S) OF PATENTS
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Source Classification	Number of ORs	New Classification	Number of ORs
342/357.01	59	342/357.43	3
342/357.03	99	342/357.57	1
342/357.05	29	342/357.25	4
342/357.15	147	342/357.27	1
342/357.07	95	342/357.29	1
342/357.1	118	342/357.4	13
342/357.11	43	342/357.57	1
342/357.08	104	342/357.66	2
342/357.01	59	342/357.67	1
342/357.15	147	342/357.23	2
342/357.08	104	342/357.29	1
342/357.1	118	342/357.34	3
342/357.12	253	342/357.42	4
342/357.06	258	342/357.59	12
		342/357.2	1
342/357.02	196	342/357.2	1
342/357.09	155	342/357.25	6
342/357.02	196	342/357.32	1
342/357.17	36	342/357.4	1
342/357.13	87	342/357.74	1
342/357.07	95	342/357.77	1
342/357.1	118	342/357.2	1
342/357.05	29	342/357.2	1
342/357.17	36	342/357.27	1
342/357.08	104	342/357.28	3
342/357.07	95	342/357.31	26
342/357.03	99	342/357.24	12
		342/357.27	12
342/357.13	87	342/357.29	1
342/357.17	36	342/357.34	2
342/357.16	22	342/357.48	1
342/357.08	104	342/357.53	1
342/357.12	253	342/357.62	27
342/357.15	147	342/357.67	14
342/357.02	196	342/357.43	2
342/357.06	258	342/357.55	3
342/357.14	70	342/357.71	1
342/357.05	29	342/357.23	2
342/357.09	155	342/357.4	9
342/357.06	258	342/357.52	7
342/357.02	196	342/357.56	1
342/357.09	155	342/357.61	1
342/357.08	104	342/357.68	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
342/357.01	59	342/357.68	2
342/357.02	196	342/357.69	1
342/357.09	155	342/357.69	1
342/357.1	118	342/357.29	5
342/357.06	258	342/357.35	3
342/357.14	70	342/357.395	1
342/357.07	95	342/357.25	1
342/357.08	104	342/357.25	1
342/357.04	38	342/357.31	5
342/357.01	59	342/357.48	6
342/357.03	99	342/357.64	3
342/357.01	59	342/357.64	4
342/357.08	104	342/357.3	1
342/357.03	99	342/357.52	1
342/357.13	87	342/357.75	3
342/357.06	258	342/357.23	2
342/357.02	196	342/357.29	13
342/357.03	99	342/357.36	2
342/357.14	70	342/357.36	4
342/357.09	155	342/357.42	12
342/357.01	59	342/357.42	1
342/357.15	147	342/357.45	1
342/357.1	118	342/357.46	2
342/357.08	104	342/357.61	3
342/357.15	147	342/357.68	7
342/357.06	258	342/357.31	28
342/357.02	196	342/357.4	4
		342/357.42	7
342/357.05	29	342/357.52	1
342/357.12	253	342/357.52	2
342/357.16	22	342/357.59	1
342/357.13	87	342/357.63	1
342/357.15	147	342/357.73	1
		342/357.74	1
342/357.04	38	342/357.21	2
342/357.12	253	342/357.25	16
342/357.08	104	342/357.33	2
342/357.03	99	342/357.45	1
342/357.04	38	342/357.63	1
342/357.06	258	342/357.72	2
342/357.16	22	342/357.29	1
342/357.06	258	342/357.41	6
342/357.15	147	342/357.48	4

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DISPOSITION CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
342/357.1	118	342/357.55	4
342/357.05	29	342/357.62	1
342/357.02	196	342/357.63	1
342/357.08	104	342/357.26	3
342/357.13	87	342/357.3	2
342/357.01	59	342/357.395	3
342/357.06	258	342/357.62	20
342/357.12	253	342/357.77	16
342/357.09	155	342/357.29	5
342/357.06	258	342/357.34	3
		342/357.4	6
342/357.02	196	342/357.55	1
342/357.15	147	342/357.58	2
342/357.05	29	342/357.63	1
342/357.13	87	342/357.42	1
342/357.03	99	342/357.44	11
342/357.1	118	342/357.48	1
342/357.02	196	342/357.59	14
342/357.04	38	342/357.24	1
342/357.14	70	342/357.28	1
342/357.12	253	342/357.31	9
342/357.06	258	342/357.33	2
342/357.13	87	701/209	1
342/357.04	38	342/357.42	1
342/357.15	147	342/357.65	4
342/357.06	258	342/357.27	11
342/357.17	36	342/357.36	2
342/357.08	104	342/357.36	3
342/357.03	99	342/357.43	2
342/357.15	147	342/357.36	1
342/357.1	118	342/357.42	6
342/357.08	104	342/357.48	3
342/357.02	196	342/357.64	5
342/357.03	99	342/357.68	1
		342/357.23	2
342/357.14	70	342/357.48	2
342/357.07	95	342/357.53	1
342/357.06	258	342/357.64	15
342/357.08	104	342/357.64	3
342/357.13	87	342/357.68	1
342/357.12	253	342/357.74	7
342/357.02	196	342/357.75	1
342/357.06	258	342/357.24	3

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DISPOSITION CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
342/357.14	70	342/357.31	22
342/357.17	36	342/357.32	1
342/357.05	29	342/357.36	1
342/357.06	258	342/357.46	6
342/357.09	155	342/357.55	8
342/357.03	99	342/357.58	2
342/357.09	155	342/357.74	1
342/357.01	59	342/357.31	9
342/357.09	155	342/357.52	1
342/357.11	43	342/357.59	4
342/357.09	155	342/357.59	4
342/357.1	118	342/357.66	1
		342/357.75	10
342/357.17	36	342/357.77	1
342/357.15	147	342/357.52	4
342/357.08	104	342/357.57	4
		342/357.62	1
342/357.16	22	342/357.64	3
342/357.15	147	342/357.69	3
342/357.17	36	342/357.74	1
342/357.1	118	342/357.25	4
342/357.13	87	342/357.32	1
342/357.02	196	342/357.62	18
		342/357.68	7
342/357.1	118	342/357.76	2
342/357.09	155	342/357.23	3
342/357.14	70	342/357.27	5
342/357.06	258	342/357.29	19
		342/357.3	2
342/357.15	147	342/357.31	8
342/357.14	70	342/357.43	3
342/357.09	155	342/357.44	2
342/357.14	70	342/357.46	1
342/357.15	147	342/357.64	14
342/357.11	43	342/357.27	4
342/357.12	253	342/357.29	14
342/357.07	95	342/357.57	8
342/357.02	196	342/357.76	1
342/357.08	104	342/357.4	2
342/357.12	253	342/357.65	2
342/357.05	29	342/357.42	2
		342/357.46	1
342/357.02	196	342/357.74	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS
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Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
342/357.13	87	342/357.77	2
342/357.08	104	342/357.23	1
342/357.11	43	342/357.395	1
342/357.02	196	342/357.52	2
342/357.13	87	342/357.58	1
342/357.09	155	342/357.64	10
342/357.04	38	342/357.69	1
342/357.17	36	342/357.78	1
342/357.09	155	342/357.22	2
342/357.02	196	342/357.23	13
342/357.08	104	342/357.32	2
342/357.13	87	342/357.395	1
342/357.07	95	342/357.52	6
342/357.02	196	342/357.58	11
342/357.12	253	342/357.59	12
342/357.15	147	342/357.61	1
		342/357.66	3
342/357.13	87	342/357.25	5
		342/357.43	3
342/357.17	36	342/357.64	2
342/357.01	59	342/357.2	6
342/357.02	196	342/357.25	7
342/357.06	258	342/357.28	1
342/357.09	155	342/357.31	31
342/357.02	196	342/357.31	24
342/357.08	104	342/357.34	17
342/357.1	118	342/357.43	6
342/357.15	147	342/357.46	1
342/357.07	95	342/357.74	4
342/357.05	29	342/357.78	1
342/357.12	253	342/357.26	5
342/357.11	43	342/357.31	4
342/357.09	155	342/357.33	2
		342/357.37	1
342/357.03	99	342/357.4	1
342/357.06	258	342/357.61	3
342/357.12	253	342/357.76	5
		342/357.24	1
342/357.07	95	342/357.27	1
342/357.03	99	342/357.29	5
342/357.07	95	342/357.35	1
342/357.09	155	342/357.46	11
		342/357.51	2

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Source Classification	Number of ORs	New Classification	Number of ORs
342/357.07	95	342/357.54	3
342/357.12	253	342/357.58	1
342/357.06	258	342/357.69	1
342/357.09	155	342/357.76	1
342/357.06	258	342/357.22	3
342/357.03	99	342/357.25	1
342/357.09	155	342/357.395	3
342/357.15	147	342/357.4	1
342/357.02	196	342/357.48	4
342/357.13	87	342/357.51	2
342/357.1	118	342/357.51	1
342/357.12	253	342/357.66	1
342/357.17	36	342/357.21	1
342/357.12	253	342/357.32	1
342/357.06	258	342/357.36	4
342/357.11	43	342/357.38	4
342/357.13	87	342/357.4	5
342/357.07	95	342/357.42	1
342/357.06	258	342/357.48	6
342/357.13	87	342/357.52	9
342/357.14	70	342/357.62	1
342/357.07	95	342/357.64	1
342/357.14	70	342/357.41	1
342/357.01	59	342/357.74	1
342/357.07	95	342/357.75	6
342/357.15	147	342/357.25	10
342/357.01	59	342/357.27	2
342/357.06	258	342/357.32	3
342/357.01	59	342/357.36	2
342/357.07	95	342/357.395	2
342/357.12	253	342/357.41	1
342/357.08	104	342/357.42	2
342/357.16	22	342/357.44	1
342/357.08	104	342/357.59	2
342/357.01	59	342/357.62	3
342/357.03	99	342/357.75	1
342/357.06	258	342/357.26	3
342/357.15	147	342/357.43	2
342/357.12	253	342/357.43	1
342/357.13	87	342/357.64	2
		342/357.65	1
342/357.06	258	342/357.75	9
342/357.08	104	342/357.27	7

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DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
342/357.09	155	342/357.27	1
342/357.11	43	342/357.29	1
342/357.06	258	342/357.58	3
342/357.15	147	342/357.62	8
342/357.02	196	342/357.77	1
342/357.14	70	342/357.3	3
342/357.15	147	342/357.35	1
342/357.17	36	342/357.35	1
342/357.11	43	342/357.36	11
342/357.1	118	342/357.57	2
342/357.04	38	342/357.62	1
342/357.12	253	342/357.73	2
342/357.05	29	342/357.75	2
342/357.17	36	342/357.25	1
342/357.02	196	342/357.27	10
342/357.15	147	342/357.28	2
342/357.07	95	342/357.36	1
342/357.04	38	342/357.37	1
342/357.12	253	342/357.46	8
342/357.11	43	342/357.48	1
342/357.16	22	342/357.2	9
342/357.11	43	342/357.37	7
342/357.1	118	342/357.395	1
342/357.16	22	342/357.21	1
342/357.17	36	342/357.29	1
342/357.13	87	342/357.31	31
342/357.06	258	342/357.395	4
342/357.12	253	342/357.57	2
342/357.02	196	342/357.57	4
342/357.03	99	342/357.62	2
342/357.12	253	342/357.64	17
342/357.05	29	342/357.68	2
342/357.09	155	342/357.75	7
342/357.15	147	342/357.76	1
342/357.06	258	342/357.21	1
342/357.07	95	342/357.4	6
342/357.06	258	342/357.43	4
342/357.17	36	342/357.48	2
		342/357.57	2
342/357.12	253	342/357.61	6
342/357.08	104	342/357.74	2
342/357.16	22	342/357.76	1
		342/357.78	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
342/357.1	118	342/357.21	1
342/357.02	196	342/357.22	6
342/357.12	253	342/357.27	4
342/357.07	95	342/357.46	6
342/357.17	36	342/357.52	2
342/357.1	118	342/357.62	6
342/357.09	155	342/357.62	5
342/357.06	258	342/357.67	1
342/357.12	253	342/357.75	7
		342/357.23	4
342/357.04	38	342/357.23	1
342/357.06	258	342/357.42	4
342/357.08	104	342/357.52	5
342/357.04	38	342/357.72	1
342/357.09	155	342/357.73	1
342/357.06	258	342/357.77	2
342/357.12	253	342/357.22	1
342/357.1	118	342/357.31	15
342/357.07	95	342/357.34	3
342/357.12	253	342/357.48	11
342/357.06	258	342/357.51	5
342/357.14	70	342/357.25	1
342/357.04	38	342/357.28	1
342/357.17	36	342/357.31	11
342/357.07	95	342/357.33	1
342/357.08	104	342/357.395	2
342/357.02	196	342/357.46	1
342/357.13	87	342/357.46	2
342/357.12	253	342/357.55	1
342/357.14	70	342/357.65	2
342/357.09	155	342/357.66	3
342/357.04	38	342/357.26	2
		342/357.27	17
342/357.02	196	342/357.28	1
342/357.01	59	342/357.29	3
		342/357.44	1
342/357.14	70	342/357.59	2
342/357.12	253	342/357.68	12
342/357.17	36	342/357.75	1
342/357.08	104	342/357.31	24
342/357.09	155	342/357.43	8
		342/357.48	4
342/357.03	99	342/357.61	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
342/357.12	253	342/357.3	1
342/357.14	70	342/357.32	13
342/357.05	29	342/357.35	1
342/357.07	95	342/357.48	2
342/357.15	147	342/357.57	2
342/357.12	253	342/357.63	23
342/357.15	147	342/357.63	14
342/357.02	196	342/357.66	2
342/357.01	59	342/357.25	2
342/357.03	99	342/357.31	26
342/357.09	155	342/357.34	4
342/357.05	29	342/357.34	1
		342/357.43	1
342/357.15	147	342/357.59	3
342/357.05	29	342/357.65	2
342/357.01	59	342/357.69	1
342/357.11	43	342/357.24	1
342/357.02	196	342/357.24	2
342/357.15	147	342/357.29	8
342/357.03	99	342/357.42	4
342/357.09	155	342/357.45	2
342/357.04	38	342/357.59	1
342/357.1	118	342/357.59	5
342/357.02	196	342/357.61	3
342/357.1	118	342/357.64	17
342/357.11	43	342/357.32	1
342/357.04	38	342/357.38	2
342/357.08	104	342/357.41	4
342/357.03	99	342/357.48	2
342/357.14	70	342/357.52	2
342/357.06	258	342/357.56	1
342/357.13	87	342/357.59	1
342/357.02	196	342/357.395	5
342/357.15	147	342/357.42	20
342/357.06	258	342/357.57	12
		342/357.63	6
342/357.05	29	342/357.67	1
342/357.11	43	342/357.28	1

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C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

USPC Class	USPC Subclass	IPC Subclass	IPC Notation
342	357.2	G01S	19/00
	357.21	G01S	19/38
	357.22	G01S	19/39
	357.23	G01S	19/40
	357.24	G01S	19/41
	357.25	G01S	19/42
	357.26	G01S	19/43
	357.27	G01S	19/44
	357.28	G01S	19/45
	357.29	G01S	19/46
	357.3	G01S	19/47
	357.31	G01S	19/48
	357.32	G01S	19/49
	357.33	G01S	19/50
	357.34	G01S	19/51
	357.35	G01S	19/52
	357.36	G01S	19/53
	357.37	G01S	19/54
	357.38	G01S	19/55
	357.39	G01S	19/01
	357.395	G01S	19/02
	357.4	G01S	19/03
	357.41	G01S	19/04
	357.42	G01S	19/05
	357.43	G01S	19/06
	357.44	G01S	19/07
	357.45	G01S	19/08
	357.46	G01S	19/09
	357.47	G01S	19/10
	357.48	G01S	19/11
	357.49	G01S	19/12
	357.51	G01S	19/13
	357.52	G01S	19/14
	357.53	G01S	19/15
	357.54	G01S	19/16
	357.55	G01S	19/17
	357.56	G01S	19/18
	357.57	G01S	19/19
	357.58	G01S	19/20
	357.59	G01S	19/21
	357.61	G01S	19/22
	357.62	G01S	19/23
	357.63	G01S	19/24
	357.64	G01S	19/25
	357.65	G01S	19/26

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

USPC		IPC	
Class	Subclass	Subclass	Notation
342	357.66	G01S	19/27
	357.67	G01S	19/28
	357.68	G01S	19/29
	357.69	G01S	19/30
	357.71	G01S	19/31
	357.72	G01S	19/32
	357.73	G01S	19/33
	357.74	G01S	19/34
	357.75	G01S	19/35
	357.76	G01S	19/36
	357.77	G01S	19/37
	357.78	G01S	5/10

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D. CHANGES TO THE DEFINITIONS

CLASS 340 - COMMUNICATIONS: ELECTRICAL

Definitions Modified:

Subclass 426.19: Under SEE OR SEARCH CLASS

.Delete:

The entire reference to Class 342.

Insert:

342, Communications: Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation), subclasses 357.2 – 357.78 for directive position indicating using GPS.

D. CHANGES TO THE DEFINITIONS

CLASS 342 - COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES (E.G., RADAR, RADIO NAVIGATION)

Definitions Abolished:

Subclasses:

357.01–357.09, 357.1, 357.11-357- 357.17

Definitions Established:

357.2 With position, velocity, or attitude determination (IPC):

This subclass is indented under subclass 352. Subject matter including a receiver which interacts with the object in space for determining the location, speed or bearing of the receiver, transmitters and receivers for such systems, ancillary equipment contributing to the proper function of such systems, or methods or devices for calculating location, speed or bearing of the receiver, based on signals received from the object in space.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/00.

357.21 Determining a navigation solution using signals transmitted by a satellite radio beacon positioning system (IPC):

This subclass is indented under subclass 357.2. Subject matter comprising devices or methods for calculating the location or orientation of a receiver based on signals transmitted by a satellite-borne radio wave transmitter.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/38.

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357.22 The satellite radio beacon positioning system transmitting time-stamped messages; e.g., GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO (IPC):

This subclass is indented under subclass 357.21. Subject matter wherein the transmitter sends a message encoded with time of transmission for used in determining travel time; e.g., at receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/39.

357.23 Correcting position, velocity, or attitude (IPC):

This subclass is indented under subclass 357.22. Subject matter comprising devices or methods for eliminating or reducing errors in the calculation of the location of the receiver, its velocity with respect to a relatively stationary reference or the inclination of the axes of a body to some frame of reference.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/40.

357.24 Differential correction; e.g., DGPS [differential GPS] (IPC):

This subclass is indented under subclass 357.23. Subject matter wherein the correction is based on error information from a source at another location.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/41.

357.25 Determining position (IPC):

This subclass is indented under subclass 357.22. Subject matter comprising devices or methods for determining the location of the receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/42.

357.26 Using carrier phase measurements; e.g., kinematic positioning; using long or short baseline interferometry (IPC):

This subclass is indented under subclass 357.25. Subject matter comprising devices or methods for (1) measuring carrier phase at a plurality of spaced antennas and using the difference, (2) for counting the number of cycles that carry the code signal, or (3) using the accumulated phase of the carriers of the system signal.

D. CHANGES TO THE DEFINITIONS

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/43.

357.27 Carrier phase ambiguity resolution; floating ambiguity; LAMBDA [Least-squares AMBiguity Decorrelation Adjustment] method (IPC):

This subclass is indented under subclass 357.26. Subject matter comprising devices and methods to resolve the number of unknown integer cycles.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/44.

357.28 By combining measurements of signals from the satellite radio beacon positioning system with a supplementary measurement (IPC):

This subclass is indented under subclass 357.25. Subject matter wherein the position is calculated by combining distances measured from a satellite with data from some other measurement.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/45.

357.29 The supplementary measurement being of a radio-wave signal type (IPC):

This subclass is indented under subclass 357.28. Subject matter wherein the other measurement is made using radio waves.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/46.

357.3 The supplementary measurement being an inertial measurement, e.g. tightly coupled inertial (IPC):

This subclass is indented under subclass 357.28. Subject matter wherein the other measurement is based on the dynamics of a fixed or moving mass; e.g., IMU or INS.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/47.

357.31 By combining or switching between position solutions derived from the satellite radio beacon positioning system and position solutions derived from a further system (IPC):

This subclass is indented under subclass 357.25. Subject matter wherein position is determined by combining or switching between two calculated positions of which one is derived from a satellite radio beacon positioning system and one from another type of system.

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(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/48.

357.32 Whereby the further system is an inertial position system; e.g. loosely-coupled (IPC):

This subclass is indented under subclass 357.31. Subject matter wherein the calculated position of the other type of system is derived from the dynamics of a fixed or moving mass; e.g., IMU or INS.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/49.

357.33 Whereby the position solution is constrained to lie upon a particular curve or surface; e.g. for locomotives on railway tracks (IPC):

This subclass is indented under subclass 357.25. Subject matter wherein the determined position is confined to a set of values associated with a given curve or surface.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/50.

357.34 Relative positioning (IPC):

This subclass is indented under subclass 357.25. Subject matter comprising devices or methods for determining a first location relative to a second location.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/51.

357.35 Determining velocity (IPC):

This subclass is indented under subclass 357.22. Subject matter comprising devices or methods for determining the time rate of change of position of the receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/52.

357.36 Determining attitude (IPC):

This subclass is indented under subclass 357.22. Subject matter wherein the inclination of the axes of a body to some frame of reference is determined.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/53.

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357.37 Using carrier phase measurements; using long or short baseline interferometry (IPC):

This subclass is indented under subclass 357.36. Subject matter comprising devices or methods for (1) measuring carrier phase at a plurality of spaced antennas and using the difference therebetween for generating attitude information, (2) for counting the number of cycles that carry the code signal, or (3) using the accumulated phase of the carriers of the system signal.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/54.

357.38 Carrier phase ambiguity resolution; floating ambiguity; LAMBDA [Least-squares AMBiguity Decorrelation Adjustment] method (IPC):

This subclass is indented under subclass 357.37. Subject matter comprising devices and methods to resolve the number of unknown integer cycles.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/55.

357.39 Satellite radio beacon positioning systems transmitting time-stamped messages; e.g., GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO (IPC):

This subclass is indented under subclass 357.2. Subject matter wherein the transmitter sends a message encoded with time of transmission for use in determining travel time; e.g., at receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/01.

357.395 Details of the space or ground control segments (IPC):

This subclass is indented under subclass 357.39. Subject matter comprising features of the satellite's communication or data processing systems or features of ground based satellite tracking, monitoring or data uploading systems.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/02.

357.4 Cooperating elements; interaction or communication between different cooperating elements or between cooperating elements and receivers (IPC):

This subclass is indented under subclass 357.39. Subject matter comprising additional elements or subsystems, including receivers of other users, which interact or

D. CHANGES TO THE DEFINITIONS

communicate with the receiver or the satellite positioning system or details of the interactions or communications between such additional elements or subsystems.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/03.

357.41 Providing carrier phase data (IPC):

This subclass is indented under subclass 357.4. Subject matter wherein the cooperating element supplies information to the receiver regarding the phase of the carrier wave transmitted by the satellite.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/04.

357.42 Providing aiding data (IPC):

This subclass is indented under subclass 357.4. Subject matter under subclass 357.4 wherein the cooperating element provides information to a receiver (e.g., ephemeris data, Doppler or timing information) which either speeds up the acquisition process in the receiver by obviating the need to decode the navigation message transmitted by a satellite, or allows acquisition in environments where decoding of the navigation message is not possible.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/05.

357.43 Employing an initial estimate of the location of the receiver as aiding data or in generating aiding data (IPC):

This subclass is indented under subclass 357.42. Subject matter wherein the cooperating element provides approximate location data to the receiver or uses the approximate location data to generate aiding data.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/06.

357.44 Providing data for correcting measured positioning data; e.g. DGPS [differential GPS] or ionosphere corrections (IPC):

This subclass is indented under subclass 357.4. Subject matter wherein the cooperating element supplies information for improving the accuracy of the receiver's positioning data, or for correcting the positioning data for the effects of the ionosphere on the received satellite signal.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/07.

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357.45 Providing integrity information; e.g., health of satellites or quality of ephemeris data (IPC):

This subclass is indented under subclass 357.4. Subject matter wherein the cooperating element provides information relating to the ability of the receiver to detect and indicate system malfunctions (not operating within specified performance limits).

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/08.

357.46 Providing processing capability normally carried out by the receiver (IPC):

This subclass is indented under subclass 357.4. Subject matter wherein the cooperating element performs such data processing or calculations as are usually performed by the receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/09.

357.47 Providing dedicated supplementary positioning signals (IPC):

This subclass is indented under subclass 357.4. Subject matter wherein the cooperating element transmits additional positioning signals to the receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/10.

357.48 Wherein the cooperating elements are pseudolites or satellite radio beacon positioning system signal repeaters (IPC):

This subclass is indented under subclass 357.47. Subject matter wherein the cooperating element is a ground-based transmitter which transmits or re-transmits positioning signals to a receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/11.

357.49 Wherein the cooperating elements are telecommunication base stations (IPC):

This subclass is indented under subclass 357.47. Subject matter wherein the supplementary signal is provided via a telecommunication transmitting station.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/12.

D. CHANGES TO THE DEFINITIONS

357.51 Receivers (IPC):

This subclass is indented under subclass 357.39. Subject matter comprising features of the detector and processor of positioning signals from the satellite.

(1) Note. If the modification enables the application of more than a specific application, then it is not classified here.

357.52 Specially adapted for specific applications (IPC):

This subclass is indented under subclass 357.51. Subject matter comprising features of a receiver which make it particularly useful for purposes other than or in addition to the determination of position in general.

(1) Note. If the modification enables the application or more than the specific application, then it is not "specifically adapted for specific application".

(2) Note. Documents classified here on the basis of use should also be classified elsewhere on the basis of structure.

(3) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/14.

357.53 Aircraft landing systems (IPC):

This subclass is indented under subclass 357.52. Subject matter comprising receivers specifically adapted for use in guiding aircraft to the ground.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/15.

357.54 Anti-theft; abduction (IPC):

This subclass is indented under subclass 357.52. Subject matter comprising receivers specifically adapted for use in tracking or locating articles or persons illegally removed.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/16.

357.55 Emergency applications (IPC):

This subclass is indented under subclass 357.52. Subject matter comprising receivers specifically adapted for use in threatening situations.

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(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/17.

357.56 Military applications (IPC):

This subclass is indented under subclass 357.52. Subject matter comprising receivers specifically adapted for use by armed forces.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/18.

357.57 Sporting applications (IPC):

This subclass is indented under subclass 357.52. Subject matter comprising receivers specifically adapted for use in games involving physical activity and skill.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/19.

357.58 Integrity monitoring, fault detection or fault isolation of space segment (IPC):

This subclass is indented under subclass 357.51. Subject matter wherein the receiver detects improper functioning of systems on the satellite or which prevents such improper functioning from affecting the receiver's position determination.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/20.

357.59 Interference related issues (IPC):

This subclass is indented under subclass 357.51. Subject matter comprising means or processes to detect or ameliorate the effect on the receiver of signals from undesired sources.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/21.

357.61 Multipath-related issues (IPC):

This subclass is indented under subclass 357.51. Subject matter whereby the effects of a signal from a satellite arriving at the receiver over more than one path are detected or ameliorated.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/22.

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357.62 Testing, monitoring, correcting or calibrating of a receiver element (IPC):

This subclass is indented under subclass 357.51. Subject matter comprising means or processes to insure the proper functioning of the receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/23.

357.63 Acquisition or tracking of signals transmitted by the system (IPC):

This subclass is indented under subclass 357.51. Subject matter comprising receiver means or methods for detecting a system signal or maintaining receipt of a system signal over time.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/24.

357.64 Involving aiding data received from a cooperating element; e.g. assisted GPS (IPC):

This subclass is indented under subclass 357.63. Subject matter wherein the acquisition or tracking of system signals in the receiver is facilitated by data provided from elements or subsystems, including receivers of other users, which interact or communicate with the receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/25.

357.65 Involving a sensor measurement for aiding acquisition or tracking (IPC):

This subclass is indented under subclass 357.63. Subject matter wherein the acquisition or tracking of signals transmitted by the system is facilitated or assisted by the output of a sensor device or element.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/26.

357.66 Creating, predicting or correcting ephemeris or almanac data within the receiver (IPC):

This subclass is indented under subclass 357.63. Subject matter wherein ephemeris or almanac data transmitted by, and normally received from, the satellite is created, predicted or corrected by the receiver itself.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/27.

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357.67 Satellite selection (IPC):

This subclass is indented under subclass 357.63. Subject matter comprising receiver means or methods for selecting which satellites to acquire or track.

(1) Note. This subclass does not cover the selection of satellites on the basis of satellite geometry; i.e., Dilution of Precision (DOP) information, since such satellites have been acquired and traced and since the DOP is used in the selection of positions.

(2) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/28.

357.68 Carrier related (IPC):

This subclass is indented under subclass 357.63. Subject matter wherein the acquisition or tracking of a signal is based on a characteristic of the signal's carrier wave.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/29.

357.69 Code related (IPC):

This subclass is indented under subclass 357.63. Subject matter wherein the acquisition or tracking of a signal is based on a characteristic of the data modulated onto its carrier wave.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/30.

357.71 Acquisition or tracking of other signals for positioning (IPC):

This subclass is indented under subclass 357.51. Subject matter whereby a receiver detects or maintains a signal other than a system signal.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/31.

357.72 Multimode operation in a single same satellite system; e.g. GPS L1/L2 (IPC):

This subclass is indented under subclass 357.51. Subject matter in which the receiver processes two or more different types of signals from the system wherein the different types conventionally include different carrier frequencies (e.g., L1, L2, L5, etc.) or different codes (e.g., C/A and P).

D. CHANGES TO THE DEFINITIONS

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/32.

357.73 Multimode operation in different systems which transmit time stamped messages; e.g. GPS/GLONASS (IPC):

This subclass is indented under subclass 357.51. Subject matter in which the receiver is able to selectively process signals from two or more different satellite radio beacon positioning systems transmitting time-stamped messages.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/33.

357.74 Power consumption (IPC):

This subclass is indented under subclass 357.51. Subject matter relating to electric power consumed by the receiver.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/34.

357.75 Constructional details or hardware or software details of the signal processing chain (IPC):

This subclass is indented under subclass 357.51. Subject matter comprising structural features of the receiver or features of its data processing circuitry or of the control thereof.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/35.

357.76 Relating to the receiver front end (IPC):

This subclass is indented under subclass 357.75. Subject matter relating to the processing of signals between the receiver's antenna and its data processing circuits.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/36.

357.77 Hardware or software details of the signal processing chain (IPC):

This subclass is indented under subclass 357.75. Subject matter comprising that part of the receiver that calculates its position from the data received by its antenna.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 19/37.

D. CHANGES TO THE DEFINITIONS

357.78 Using Doppler frequency shift:

This subclass is indented under subclass 357.2. Subject matter wherein position is determined using the magnitude of the change in the observed wave cycles per time when the satellite and object are moving with respect to each other.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC G01S 5/10.

D. CHANGES TO THE DEFINITIONS

CLASS 380 - CRYPTOGRAPHY

Definitions Modified:

Subclass 258: Under SEE OR SEARCH CLASS

.Delete:

The entire reference to Class 342.

Insert:

342, Communications: Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation), subclasses 357.2 – 357.78 for directive radio wave systems including a satellite with position indicating.