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Nuclear Engineering Division: Patents Listing (2000 – present)

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#	Title	Patent #	Issued	Inventors
44	Surface acoustic wave probe implant for predicting epileptic seizures	8,165,682	4/24/2011	N. Gopalsami, S. Kulikov, I. Osorio, A.C. Raptis
43	High-temperature potentiometric oxygen sensor with internal reference	8,057,652	11/15/2011	J.L. Routbort, D. Singh, P.K. Dutta, R. Ramasamy, J.V. Spirig, S. Akbar
42	Compact electrochemical bifunctional NO _x /O ₂ sensors with internal reference for high temperature applications	8,012,323	9/6/2011	D. Singh, J. Routbort, P. Dutta, J.V. Spirig, and J. Chan Yang
41	Computed radiography system for mammography	8,008,642	8/30/2011	S. Schweizer, J. A. Johnson and A. Lubinsky
40	Fuel Processing Device	7,988,925	8/2/2011	R. K. Ahluwalia, S. Ahmed, and S. H. D. Lee
39	Passive millimeter wave spectrometer for remote detection of chemical plumes	7,888,645	2/15/2011	N. Gopalsami, S. Bakhtiari, A.C. Raptis, T.W. Elmer
38	Photoacoustic spectroscopy system and technique for remote sensing of explosives and toxic chemicals	7,861,574	1/4/2011	S.-H. Sheen, A.C. Raptis, H.-T. Chien
37	Method for Analyzing Multi-Layer Materials from One-Sided Pulsed Thermal Imaging	7,769,201	8/3/2010	J. Sun
36	Joining of Advanced Materials by Plastic Deformation	7,722,731	5/25/2010	J.L. Routbort, D. Singh, K.C. Goretta, F. Gutierrez-Mora
35	Surface modification to improve fireside corrosion resistance of Fe-Cr ferritic steels	7,678,471	3/16/2010	J.-H. Park, K. Natesan, D.L. Rink
34	Photoacoustic Spectroscopy System and Technique for Remote Sensing of Explosives and Toxic Chemicals	7,644,606	1/12/2010	S.-H. Sheen, A.C. Raptis, H.-T. Chien

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33	Method and Apparatus for Ultrasound Phased Array Testing of Bearing Balls	7,617,733	11/7/2009	C.M. Deemer, W.A. Ellingson, J.S. Steckenreider
32	Optical Filter for Flash Lamps in Pulsed Thermal Imaging	7,538,938	5/29/2009	J. Sun
31	Passive millimeter wave spectrometer for remote detection of chemical plumes	7,495,218	2/24/2009	N. Gopalsami, S. Bakhtiari, A.C. Raptis, T.W. Elmer
30	Methods of using a laser to perforate composite structures of steel casing, cement and rocks	7,487,834	2/10/2009	C.B. Reed, Z. Xu
29	Tracking of moving radioactive sources	7,465,924	12/16/2008	R.T. Klann, R.B. Vilim, Y.S. Kim
28	Fibrous ceramic monoliths made from multi-phase ceramic filaments	7,452,837	11/18/2008	K. C. Goretta, D. Singh, B.J. Polzin, T.A. Cruse, J.J. Picciolo
27	Method for inducing hypothermia	7,422,601	9/9/2008	L. B. Becker, (1) T. Vanden Hoek, K. E. Kasza
26	Methods of using a laser to spall and drill holes in rocks	7,416,258	8/26/2008	C.B. Reed, Z. Xu, R.A.Parker, R.M. Graves, T.W. Stone
25	Medical ice slurry production device	7,389,653	6/24/2008	K. E. Kasza, J. Oras, H.-J. Son
24	Method for thermal tomography of thermal effusivity from pulsed thermal imaging	7,365,330	4/29/2008	J.G. Sun
23	Method to seal reactive materials under vacuum	7,350,280	4/1/2008	T. C. Wiencek
22	Method for fast start of a fuel processor	7,323,159	1/29/2008	R.K. Ahluwalia, S. Ahmed, S.H.D. Lee
21	Resonance-enhanced dielectric sensing of chemical and biological species	7,223,608	5/29/2007	N. Gopalsami, A. C. Raptis
20	Optical apparatus for laser scattering by objects having complex shapes	7,136,158	11/14/2006	W. A. Ellingson, R. J. Visser

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19	Heat transfer probe	7,118,591	10/10/2006	K. E. Kasza, T.-H. Chien, W. Yu, A. J. Rosengart, J. I. Frank, J. E. Franklin
18	Method for fabricating uranium foils and uranium alloy foils (as filed)	7,100,670	9/5/2006	G. L. Hofman, M. K. Meyer, G. C. Knighton, C. R. Clark
17	Continuous process electrorefiner (as issued)	7,097,747	8/9/2006	J. E. Herceg, J. G. Saiveau, L. Krajtl
16	Method and apparatus for atomizing fluids with a multi-fluid nozzle (as issued)	6,827,296	12/7/2004	V. J. Novick, R. K. Ahluwalia
15	Fissile interrogation using gamma rays from oxygen (as issued)	6,724,852	4/20/2004	D. L. Smith, B. J. Micklich, A. Fessler
14	Nuclear fuel electrorefiner (as issued)	6,689,260	2/10/2004	R. K. Ahluwalia, T. Q. Hua
13	Pocked surface neutron detector (as issued)	6,545,281	4/8/2003	D. S. McGregor, R. T. Klann
12	Eddy Current Technique for Predicting Burst Pressure	6,519,535	2/11/2003	M. C. Petri, D. S. Kupperman, J. A. Morman, J. Reifman, T. Y. C. Wei
11	Thermal Imaging Measurements of Lateral Diffusivity and Non-Invasive Material Defect Detection	6,517,238	2/11/2003	J. G. Sun and C. M. Deemer
10	Method and Apparatus for Automated Thermal Imaging of Combustor Liners and Other Products	6,517,236	2/11/2003	J. G. Sun, W. A. Ellingson, C. M. Deemer
9	Fanmod: A Simple Model Simulating a Fan as a Source of Axial and Circumferential Body Forces	#TXu-1-083	12/11/2002	C. Tzanos and T. H. Chien
8	Coated semiconductor devices for neutron detection (as issued)	6,479,826	11/12/2002	R. T. Klann, D. S. McGregor
7	Methods and Apparatus for Producing Phase Change Ice Particulate Saline Slurries	6,413,444	7/2/2002	K. E. Kasza
6	Method and apparatus for the clean replacement of contaminated hepa filters	6,364,923	4/2/2002	A. R. Frigo, D. E. Preuss, R. F. Malecha, S. G. Weidmeyer, E. F. Bielick
5	Methods for weld monitoring and laser heat treatment monitoring (as issued)	6,329,635	12/11/2001	P. G. Sanders, K. H. Leong

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4	Optical Method and Apparatus for Detection of Defects and Microstructural Changes in Ceramics and Ceramic Coatings	6,285,449	9/4/2001	W. A. Ellingson, J. A. Todd, J. G. Sun
3	Ultrasonic Gas Analyzer and Method to Analyze Trace Gases	6,279,378	9/4/2001	S. H. Sheen, H. T. Chien, A. C. Raptis
2	Method and Apparatus for Producing Phase Change Ice Particulate Perfluorocarbon Slurries	6,244,052	6/12/2001	K. E. Kasza
1	Method for Fabricating 99Mo Production Targets Using Low Enriched Uranium, 99Mo Production Targets Comprising Low Enriched Uranium	6,160,862	12/31/2000	T. Wiencek, J. E. Matos, G. L. Hofman

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