

Case Number Country	SubCase Case Type	Application Filing Date	Publication Publication Date	Patent Number Issue Date	Status Expiration Date
00-1434 United States of America	PRI	11/478,876 30-Jun-2006	08/0003531 03-Jan-2008	7,980,850 19-Jul-2011	Abandoned 24-Nov-2029
<p><b>Title:</b> Self-Recuperated, Low NOx Flat Radiant Panel  <b>Inventors:</b> Khinkis, Mark J.; Abbasi, Hamid A.; Harry S. Kurek; Walter Kunc; Chudnovsky, Yaroslav; de La Faire, Antoine; Touzet, Antonin; Yerinov, A.; Semernin, A.</p>					
00-1466 United States of America	PRI	09/946,444 05-Sep-2001	0054303-A1 20-Mar-2003	6,663,380 16-Dec-2003	Granted 13-Nov-2021
<p><b>Title:</b> Method and Apparatus for Advanced Two-Stage Combustion Utilizing Forced Internal Recirculation  <b>Inventors:</b> Rabovitser, Iosif K.; Knight, Richard A.; Cygan, David F.; Serguei Nester; Abbasi, Hamid A.</p>					
02-1488 United States of America	PRI	10/222,180 16-Aug-2002		6,672,859 06-Jan-2004	Granted 16-Aug-2022
<p><b>Title:</b> Method and Apparatus for Transversely Staged Combustion Utilizing Forced Internal Recirculation  <b>Inventors:</b> Rabovitser, Iosif K.; Knight, Richard A.; Cygan, David F.</p>					
02-1523 United States of America	PRI	10/463,956 18-Jun-2003			Closed
<p><b>Title:</b> Combustion-Based Emission Reduction (CBER) Method and System  <b>Inventors:</b> Rabovitser, Iosif K.; Bryan, Bruce G.; Wohadlo, Stan</p>					
03-1526 United States of America	PRI	11/073,950 07-Mar-2005	0199119-A1 07-Sep-2006	7,766,649 03-Aug-2010	Granted 07-Mar-2025
<p><b>Title:</b> Multi-Ported, Internally Recuperated Nozzles for Direct Flame Impingement Heating Applications  <b>Inventors:</b> Abbasi, Hamid A.; Kurek, Harry; Chudnovsky, Yaroslav; Lisienko, V.; Malikov, G.</p>					
03-1548 United States of America	PRI	10/832,587 27-Apr-2004	0236747-A1 27-Oct-2005	7,273,583 25-Sep-2007	Granted 27-Jan-2026
<p><b>Title:</b> Process and Apparatus for Uniform Combustion Within a Molten Material  <b>Inventors:</b> Rue, David M.; Abbasi, Hamid A.; Khinkis, Mark J.; Olabin, Vladimir M.; Maksymuk, Oleksandr B.</p>					
05-1638 United States of America	PRI	11/644,456 22-Dec-2006		7,276,358 02-Oct-2007	Granted 22-Dec-2026
<p><b>Title:</b> Rapid Quantification of Butyric Acid-Producing Bacteria Using Real-Time PCR  <b>Inventors:</b> Zhu, Xiangyang</p>					
05-1639 United States of America	PRI	11/651,204 09-Jan-2007		7,384,770 10-Jun-2008	Granted 09-Jan-2027
<p><b>Title:</b> Rapid Quantification of Acetic Acid-Producing Bacteria Using Real-Time PCR  <b>Inventors:</b> Zhu, Xiangyang</p>					
06-1656 United States of America	PRI	11/499,379 04-Aug-2006	08/0030189 07-Feb-2008	7,466,134 16-Dec-2008	Granted 04-Aug-2026
<p><b>Title:</b> A Device for Locating Cast Iron Joints  <b>Inventors:</b> McCarty, Joe W.</p>					

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07-1691 United States of America	PRI	12/051,082 19-Mar-2008	09/0235671 24-Sep-2009	7,926,292 19-Apr-2011	Granted 25-Jan-2030
<b>Title:</b> Partial Oxidation Gas Turbine Cooling <b>Inventors:</b> Rabovitser, Joseph; Nester, Serguei A.; Wohadlo, Stan; Tartan, Mehmet					
08-1710 United States of America	PRI	12/252,903 16-Oct-2008	10/0098260 22-Apr-2010	8,050,414 01-Nov-2011	Granted 19-Jul-2030
<b>Title:</b> Robust Pipe-Strike Pulse Detector <b>Inventors:</b> Givens, Maurice					
08-1716 United States of America	PRI	12/240,217 29-Sep-2008	10/078,090 01-Apr-2010		Abandoned
<b>Title:</b> Impact Sensing Multi-Layered Plastic Material <b>Inventors:</b> Miller, Michael J.; Mamoun, Michael; Ersoy, Daniel					
08-1716 United States of America	cip CIP	12/826,720 30-Jun-2010	10/0288181 18-Nov-2010		Abandoned
<b>Title:</b> Impact Sensing Multi-Layered Plastic Material <b>Inventors:</b> Ersoy, Daniel; Lever, Ernest					
09-1733 United States of America	PRI	12/494,801 30-Jun-2009	10/0330603 30-Dec-2010	8,143,019 27-Mar-2012	Granted 24-Apr-2030
<b>Title:</b> Portable Microbiological Testing Device for Gases <b>Inventors:</b> Zhu, Xiangyang; Cruz, Kristine Mi; Saber, Diane					
09-1752 United States of America	PRI	12/715,006 01-Mar-2010	11/0211193 01-Sep-2011	8,139,222 20-Mar-2012	Granted 07-Dec-2030
<b>Title:</b> Pressure Controlled Spectroscopic Heating Value Sensor <b>Inventors:</b> Saveliev, Alexei V.; Zelepouga, Serguei; Rue, David M.					
09-1753 United States of America	PRI	12/774,233 05-May-2010	11/0273178 10-Nov-2011	8,981,903 17-Mar-2015	Granted 06-Mar-2033
<b>Title:</b> DEVICE FOR MARKING OUT BURIES OBJECTS <b>Inventors:</b> Daniels, Nickolas; Ziolkowski, Christopher J.; Hennessey, Frank					
10-1799 United States of America	PRI	12/963,654 09-Dec-2010		8,138,471 20-Mar-2012	Granted 09-Dec-2030
<b>Title:</b> X-RAY BACKSCATTER DEVICE FOR WELLBORE CASING AND PIPELINE INSPECTION <b>Inventors:</b> Shedlock, Daniel; Hammerschmidt, Andrew					
11-1861 United States of America	PRI	13/269,666 10-Oct-2011		8,296,915 30-Oct-2012	Abandoned 10-Oct-2031
<b>Title:</b> EXTERNAL REPAIR METHOD FOR IN-SERVICE LEAKING FLUID CONDUITS AND CONTAINERS <b>Inventors:</b> Germata, Daniel Thomas					

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13-1951 United States of America	PRI	14/143,146 30-Dec-2013		9,174,164 03-Nov-2015	Granted 09-Mar-2034
<b>Title:</b> APPARATUS FOR DEHUMIDIFYING GAS AND METHODS OF USE <b>Inventors:</b> Glanville, Paul; Chudnovsky, Yaroslav; Fan, Qinbai; Kozlov, Aleksandr					
13-1965 United States of America	PRI	14/091,761 27-Nov-2013			Pending
<b>Title:</b> AIR CONDITIONING LAMINATE AND METHOD <b>Inventors:</b> Stanis, Ronald; Fan, Qinbai					
85-1069 United States of America	PRI	112821 23-Oct-1987		4,846,665 11-Jul-1989	Expired 23-Oct-2007
<b>Title:</b> FUEL COMBUSTION <b>Inventors:</b> Abbasi, Hamid A.					
86-1079 United States of America	PRI	408961 18-Sep-1989		4,971,605 20-Nov-1990	Expired 18-Sep-2009
<b>Title:</b> ISOTHERMAL THERMO-CYCLIC PROCESSING <b>Inventors:</b> TARMAN, PAUL B.					
86-1088 United States of America	PRI	501130 29-Mar-1990		5116137 26-May-1992	Abandoned 29-Mar-2010
<b>Title:</b> TEMPERATURE MEASURING PYROMETER WHICH COMPENSATES FOR RADIATION HEAT TRANSFER AND PNEUMATIC LOSSES <b>Inventors:</b> L MCHIE; T XIONG					
87-1091 United States of America	PRI	354837 22-May-1989		5,013,236 07-May-1991	Expired 22-May-2009
<b>Title:</b> ULTRA-LOW POLLUTANT EMISSION COMBUSTION PROCESS AND APPARATUS <b>Inventors:</b> Khinkis, Mark J.					
87-1091 United States of America	A CIP	682425 08-Apr-1991		5,158,445 27-Oct-1992	Expired 27-Oct-2009
<b>Title:</b> ULTRA-LOW POLLUTANT EMISSION COMBUSTION PROCESS AND APPARATUS <b>Inventors:</b> Khinkis, Mark J.					
87-1123 United States of America	PRI	172808 28-Mar-1988		4826796 02-May-1989	Abandoned 02-May-2006
<b>Title:</b> MIXED BASIC METAL OXIDE CATALYST FOR OXIDATIVE COUPLING OF METHANE <b>Inventors:</b> Lee, Anthony L.; Erekson, Erek J.					

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87-1123 United States of America	A	CIP	274415 21-Nov-1988		4935572 19-Jun-1990	Abandoned 28-Mar-2008
<b>Title:</b> MIXED BASIC METAL OXIDE CATALYST FOR OXIDATIVE COUPLING OF METHANE						
<b>Inventors:</b> Lee, Anthony L.; Ereksn, EreK J.						
87-1123 United States of America	B	CIP	359207 31-May-1989		4945078 31-Jul-1990	ABANDONED 31-Jul-2007
<b>Title:</b> MIXED BASIC METAL OXIDE CATALYST FOR OXIDATIVE COUPLING OF METHANE						
<b>Inventors:</b> Lee, Anthony L.; Ereksn, EreK J.						
87-1123 United States of America	C	PRI	517068 07-May-1990		5043505 27-Aug-1991	Abandoned 27-Aug-2008
<b>Title:</b> MIXED BASIC METAL OXIDE CATALYST FOR OXIDATIVE COUPLING OF METHANE						
<b>Inventors:</b> Lee, Anthony L.; Ereksn, EreK J.						
87-1125 United States of America		PRI	486065 28-Feb-1990		5,020,456 04-Jun-1991	Expired 28-Feb-2010
<b>Title:</b> PROCESS AND APPARATUS FOR EMISSIONS REDUCTION FROM WASTE INCINERATION						
<b>Inventors:</b> Abbasi, Hamid A.; ITSE, DANIEL C.; Khinkis, Mark J.; LISAIUSKAS, ROBERT A.						
87-1125-A United States of America	A	CIP	699164 13-May-1991		5,105,747 21-Apr-1992	Expired 28-Feb-2010
<b>Title:</b> PROCESS AND APPARATUS REDUCING POLLUTANT EMISSIONS IN FLUE GASES						
<b>Inventors:</b> Khinkis, Mark J.; PATEL, JITENDRA; Rehmat, Amirali G.						
87-1125-B United States of America	B	CIP	703812 21-May-1991		5,205,227 27-Apr-1993	Expired 27-Apr-2010
<b>Title:</b> PROCESS AND APPARATUS FOR EMISSIONS REDUCTION FROM WASTE INCINERATION						
<b>Inventors:</b> Abbasi, Hamid A.; Khinkis, Mark J.						
87-1125-BD United States of America		DIV	021896 24-Feb-1993		5,307,746 03-May-1994	Expired 03-May-2011
<b>Title:</b> PROCESS AND APPARATUS FOR EMISSIONS REDUCTION FROM WASTE INCINERATION						
<b>Inventors:</b> Abbasi, Hamid A.; Khinkis, Mark J.						
87-1126 United States of America		PRI	739209 01-Aug-1991		5,209,187 11-May-1993	Expired 01-Aug-2011
<b>Title:</b> LOW-POLLUTANT EMISSION, HIGH-EFFICIENCY CYCLONIC BURNER FOR FIRETUBE BOILERS						
<b>Inventors:</b> Khinkis, Mark J.						

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87-1126-1 United States of America	PRI	889171 27-May-1992		5,220,888 22-Jun-1993	Expired 27-May-2012
<b>Title:</b>					
<b>Inventors:</b> Khinkis, Mark J.; Abbasi, Hamid A.					
89-1172 United States of America	PRI	650212 04-Feb-1991			Abandoned
<b>Title:</b> DI-METAL OXIDE-SULFIDE CATALYST					
<b>Inventors:</b> Barone, S. Peter; Ereksn, EreK J.; Lee, Anthony L.; SOLOMON, IRVINE J.					
89-1175 United States of America	PRI	167772 15-Dec-1993		5,660,202 26-Aug-1997	Expired 26-Aug-2014
<b>Title:</b> INSERTION DEVICES AND TURNTABLES FOR ROBOTS IN GAS DISTRIBUTION SYSTEMS					
<b>Inventors:</b> Campbell, Bruce K.; HARDY, KENNETH C.; Rush Jr., William F.; SWEETWOOD, LYNN A.					
89-1201 United States of America	PRI	708460 31-May-1991		5097086 17-Mar-1992	Abandoned 31-May-2011
<b>Title:</b> LIQUID CATALYSTS FOR OXIDATIVE COUPLING REACTIONS					
<b>Inventors:</b> Lee, Anthony L.; Ereksn, EreK J.; R F ZABRANSKY; Barone, S. Peter					
90-1209 United States of America	PRI	681958 08-Apr-1991		5204308 20-Apr-1993	Abandoned 08-Apr-2011
<b>Title:</b> OXIDATIVE COUPLING CATALYST WITH ANIONIC PROMOTERS					
<b>Inventors:</b> Lee, Anthony L.; Ereksn, EreK J.; Semrau, James T.; Barone, S. Peter					
90-1233 United States of America	PRI	739200 01-Aug-1991		5165254 24-Nov-1992	Abandoned 01-Aug-2011
<b>Title:</b> COUNTERFLOW AIR-TO-REFRIGERANT HEAT EXCHANGE SYSTEM					
<b>Inventors:</b> Czachorski, Marek; KOUNTZ K					
90-1234 United States of America	PRI	764788 24-Sep-1991		5186012 16-Feb-1993	Abandoned 24-Sep-2011
<b>Title:</b> REFRIGERANT COMPOSITION CONTROL SYSTEM FOR USE IN HEAT PUMPS USING NON-AZEOTROPIC REFRIGERANT MIXTURES					
<b>Inventors:</b> Czachorski, Marek; KOUNTZ, KENNETH					
90-1236 United States of America	PRI	027418 08-Mar-1993			Abandoned
<b>Title:</b> THERMOSTATIC EXPANSION VALVE FOR USE WITH MIXED REFRIGERANTS					
<b>Inventors:</b> Czachorski, Marek; KOUNTZ, KENNETH					
91-1254 United States of America	PRI	872288 22-Apr-1992		5,203,859 20-Apr-1993	Expired 22-Apr-2012
<b>Title:</b> OXYGEN-ENRICHED COMBUSTION METHOD					
<b>Inventors:</b> Khinkis, Mark J.; Abbasi, Hamid A.					

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91-1272 United States of America	PRI	31244 12-Mar-1993		5,307,748 03-May-1994	Expired 12-Mar-2013
<p><b>Title:</b> CYCLONIC THERMAL TREATMENT AND STABILIZATION OF INDUSTRIAL WASTES</p> <p><b>Inventors:</b> Abbasi, Hamid A.; Khinkis, Mark J.</p>					
92-1294 United States of America	PRI	094940 20-Jul-1993		5,350,293 27-Sep-1994	Expired 20-Jul-2013
<p><b>Title:</b> A METHOD FOR TWO-STAGE COMBUSTION UTILIZING FORCED INTERNAL RECIRCULATION</p> <p><b>Inventors:</b> Abbasi, Hamid A.; Cygan, David F.; Khinkis, Mark J.</p>					
96-1386 United States of America	PRI	902,137 30-Jul-1997		5,937,772 17-Aug-1999	Granted 30-Jul-2017
<p><b>Title:</b> Reburn Process</p> <p><b>Inventors:</b> Khinkis, Mark J.; Rabovitser, Iosif K.; Michael J. Roberts</p>					
97-1397 United States of America	PRI	09/130,040 06-Aug-1998		5,934,892 10-Aug-1999	Granted 06-Aug-2018
<p><b>Title:</b> Process for Emissions Reduction Using Partial Oxidation of Combustible Material</p> <p><b>Inventors:</b> Rabovitser, Iosif K.; Khinkis, Mark J.; Michael J. Roberts</p>					