

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3580078

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
PEROXYCHEM LLC		10/21/2015
RECEIVING PARTY DATA		
Name:	BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT	
Street Address:	135 S. LASALLE STREET, IL4-135-09-61	
City:	CHICAGO	
State/Country:	ILLINOIS	
Postal Code:	60603	
PROPERTY NUMBERS Total: 37		
Property Type	Number	
Application Number:	08783494	
Application Number:	08905421	
Application Number:	09190532	
Application Number:	08589673	
Application Number:	11512464	
Application Number:	10518248	
Application Number:	12187693	
Application Number:	11512569	
Application Number:	10589767	
Application Number:	10568994	
Application Number:	12089735	
Application Number:	11973496	
Application Number:	12111732	
Application Number:	12362873	
Application Number:	12778675	
Application Number:	13353033	
Application Number:	13387932	
Application Number:	12709587	
Application Number:	12697660	
Application Number:	13796439	

PATENT

Property Type	Number
Application Number:	13369881
Application Number:	12632056
Application Number:	14486395
Application Number:	14697967
Application Number:	14656962
Application Number:	14686807
Application Number:	12519889
Application Number:	13848125
Application Number:	13848092
Application Number:	12048907
Application Number:	14019696
Application Number:	14251888
Application Number:	14256220
Application Number:	14317634
Application Number:	14519351
Application Number:	14538119
Application Number:	14603790

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SIGNATURE:	/s/ Rebecca S. Chaffin
DATE SIGNED:	10/21/2015

Total Attachments: 14

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NOTICE OF GRANT OF SECURITY INTEREST IN PATENTS

United States Patent and Trademark Office

Ladies and Gentlemen:

Please be advised that pursuant to the Security and Pledge Agreement dated as of October 21, 2015 (as amended, modified, extended, restated, renewed, replaced, or supplemented from time to time, the "Agreement") by and among the Grantors party thereto (each an "Grantor" and collectively, the "Grantors") and Bank of America, N.A., as administrative agent (the "Administrative Agent") for the Secured Parties referenced therein, the undersigned Grantor has granted a continuing security interest in and continuing lien upon the patents and patent applications shown on Schedule 1 attached hereto to the Administrative Agent for the ratable benefit of the Secured Parties.

The undersigned Grantor and the Administrative Agent, on behalf of the Secured Parties, hereby acknowledge and agree that the security interest in the foregoing patents and patent applications (a) may only be terminated in accordance with the terms of the Agreement and (b) is not to be construed as an assignment of any patent or patent application.

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Very truly yours,

PEROXYCHEM HOLDINGS, L.P.,

By: PeroxyChem Holdings GP Ltd.,
its General Partner

By: 

Name: Bruce A. Lerner

Title: Director

PEROXYCHEM LLC,

a Delaware limited liability company

By: 

Name: Bruce A. Lerner

Title: President and Chief Executive Officer

Acknowledged and Accepted:

BANK OF AMERICA, N.A., as Administrative Agent

By: _____

Name: _____

Title: _____

Angela Larkin
Angela Larkin
Assistant Vice President

NOTICE OF GRANT OF SECURITY INTEREST IN PATENTS

Signature Page

PATENT

REEL: 036847 FRAME: 0599

PeroxyChem LLC Patents and Applications:

Schedule 1 to Notice of Grant of Security Interest in Patents

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
United States	Granted	08/783,494	1/14/1997	5,849,985	12/15/1998	1/14/2017	USE OF PERSULFATE TO DESTROY HALOFORM
United States	Granted	08/905,421	8/4/1997	5,977,403	11/2/1999	8/4/2017	METHOD FOR THE PRODUCTION OF LOWER ORGANIC PERACIDS
United States	Granted	09/190,532	11/12/1998	6,365,099	4/2/2002	11/12/2018	IN SITU GAS SCRUBBING METHOD AND SYSTEM FOR ODOR AND CORROSION CONTROL IN WASTEWATER COLLECTION SYSTEMS
United States	Granted	08/589,673	1/22/1996	6,368,570	4/9/2002	7/28/2018	PROCESS FOR MANUFACTURING CARO'S ACID
United States	Granted	11/512,464	8/30/2006	7,416,718	8/26/2008	8/30/2026	AUTO-OXIDATION PRODUCTION OF HYDROGEN PEROXIDE VIA OXIDATION IN A MICROREACTOR
United States	Granted	10/518,248	7/25/2005	7,473,372	1/6/2009	5/29/2024	OXIDATION OF ORGANIC COMPOUNDS
United States	Granted	12/187,693	8/7/2008	7,524,141	4/28/2009	7/28/2024	TREATMENT OF ENVIRONMENTAL CONTAMINANTS
United States	Granted	11/512,569	8/30/2006	7,547,430	6/16/2009	8/10/2027	AUTO-OXIDATION PRODUCTION OF HYDROGEN PEROXIDE VIA HYDROGENATION IN A MICROREACTOR
United States	Granted	10/589,767	5/24/2007	7,576,254	8/18/2009	7/11/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
United States	Granted	10/568,994	4/10/2007	7,666,315	2/23/2010	5/22/2024	METHOD, DEVICES AND REAGENTS WHICH ARE USED FOR WASTEWATER TREATMENT
United States	Granted	12/089,735	4/10/2008	7,785,038	8/31/2010	10/23/2026	OXIDATION OF ORGANIC COMPOUNDS
United States	Granted	11/973,496	10/9/2007	7,947,745	5/24/2011	12/5/2029	REDUCING THE VISCOSITY OF AN AQUEOUS FLUID

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
United States	Granted	12/111,732	4/29/2008	7,998,446	8/16/2011	11/4/2029	FLUE GAS DESULFURIZATION PROCESS UTILIZING HYDROGEN PEROXIDE
United States	Granted	12/362,873	1/30/2009	8,029,693	10/4/2011	1/22/2030	RAPID DILUTION OF PERACID SOLUTIONS TO EQUILIBRATED SOLUTIONS
United States	Granted	12/778,675	5/12/2010	8,147,785	4/3/2012	5/12/2030	COMBUSTION FLUE GAS NOX TREATMENT
United States	Granted	13/353,033	1/18/2012	8,454,890	6/4/2013	1/18/2032	PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
United States	Granted	13/387,932	4/12/2012	8,486,366	7/16/2013	7/29/2030	ACTIVATION OF REACTIVE COMPOUND WITH CATALYST
United States	Granted	12/709,587	2/22/2010	8,575,075	11/5/2013	10/17/2030	PERACID OIL-FIELD VISCOSITY BREAKER AND METHOD
United States	Granted	12/697,660	2/1/2010	8,696,986	4/15/2014	9/29/2031	STERILIZATION METHOD
United States	Granted	13/796,439	3/12/2013	8,865,066	10/21/2014	3/12/2033	STERILIZATION METHOD
United States	Granted	13/369,881	2/9/2012	8,877,149	11/4/2014	1/14/2031	COMBUSTION FLUE GAS NOX TREATMENT
United States	Granted	12/632,056	12/7/2009	9,018,142	4/28/2015	8/14/2031	PERACETIC ACID OIL-FIELD BIOCIDES AND METHOD
United States	Granted	14/486,395	9/15/2014	9,114,357	8/25/2015	9/13/2033	TREATMENT OF NITROGEN OXIDES IN FLUE GAS STREAMS
United States	Pending	14/697,967	4/28/2015				RECOVERY OF AQUEOUS HYDROGEN PEROXIDE IN AUTO-OXIDATION H2O2 PRODUCTION
United States	Pending	14/656,962	3/13/2015				TREATMENT OF CONTAMINATED SOIL AND WATER
United States	Pending	14/686,807	4/15/2015				PERACETIC ACID OIL-FIELD BIOCIDES AND METHOD
United States	Pending	12/519,889	6/18/2009				PERACETIC ACID COMPOSITION
United States	Pending	13/848,125	3/21/2013				ENVIRONMENTAL REMEDIATION PROCESS

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
United States	Pending	13/848,092	3/21/2013				ORGANIC ACID ACTIVATION OF PERSULFATES
United States	Pending	12/048,907	3/14/2008				RECOVERY OF AQUEOUS HYDROGEN PEROXIDE IN AUTO-OXIDATION H2O2 PRODUCTION
United States	Pending	14/019,696	9/6/2013				TRAILER AND METHOD FOR TRANSPORTING PERACETIC ACID
United States	Pending	14/251,888	4/14/2014				STERILIZATION METHOD
United States	Pending	14/256,220	4/18/2014				PERACETIC ACID COMPOSITION
United States	Pending	14/317,634	6/27/2014				WASTEWATER TREATMENT METHOD
United States	Pending	14/519,351	10/21/2014				STERILIZATION METHOD
United States	Pending	14/538,119	11/11/2014				TREATMENT OF ARSENIC CONTAMINATED SOIL AND WATER
United States	Pending	14/603,790	1/23/2015				PERACETIC ACID OIL-FIELD BIOCIDES AND METHOD
Australia	Granted	2004261626	1/25/2006	2004261626	8/6/2009	7/28/2024	TREATMENT OF ENVIRONMENTAL CONTAMINANTS
Australia	Granted	2005216224	8/22/2006	2005216224	5/20/2010	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Australia	Granted	2006304755	4/18/2008	2006304755	10/20/2011	10/20/2026	OXIDATION OF ORGANIC COMPOUNDS
Australia	Pending	2012207342	6/28/2013				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
Australia	Pending	2013235063	3/21/2013				ENVIRONMENTAL REMEDIATION PROCESS
Australia	Pending	2013235139	3/21/2013				ORGANIC ACID ACTIVATION OF PERSULFATES
Australia	Pending	2013232279	10/10/2014				IMPROVED STERILIZATION METHOD
Austria	Granted	05723641.6	2/24/2005	AT-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Belgium	Granted	05723641.6	2/24/2005	BE-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
Belgium	Pending	07871725.3	12/20/2007				AN IMPROVED PERACETIC ACID COMPOSITION
Brazil	Granted	PI0312040-6	6/25/2003	PI0312040-6	9/18/2012	6/25/2023	OXIDATION OF ORGANIC COMPOUNDS
Brazil	Pending	PI1007160-1	2/1/2010				STERILIZATION METHOD
Brazil	Pending	PI0922584-6	12/7/2009				PERACETIC ACID OIL-FIELD BIOCIDES AND METHOD
Brazil	Pending	PI0412251-8	7/28/2004				TREATMENT OF ENVIRONMENTAL CONTAMINANTS
Brazil	Pending	BR1120130168960	6/28/2013				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
Brazil	Pending	BR1120140228450	9/15/2014				IMPROVED STERILIZATION METHOD
Brazil	Pending	BR1120140234884	9/22/2014				ORGANIC ACID ACTIVATION OF PERSULFATES
Brazil	Granted	PI0617476-0	4/17/2008	PI0617476-0			OXIDATION OF ORGANIC COMPOUNDS
Brazil	Pending	PI0507968-3	2/24/2005				OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Canada	Granted	2,212,819	8/12/1997	2,212,819	8/14/2007	2/5/2016	COMPOSITION AND METHOD FOR DEGRADATION OF NITROAROMATIC CONTAMINANTS
Canada	Granted	2,490,114	12/20/2004	2,490,114	8/9/2011	6/25/2023	OXIDATION OF ORGANIC COMPOUNDS
Canada	Granted	2,533,772	1/24/2006	2,533,772	10/15/2013	7/28/2024	TREATMENT OF ENVIRONMENTAL CONTAMINANTS
Canada	Granted	2,536,302	2/20/2006	2,536,302	8/9/2011	8/22/2023	METHOD, DEVICES AND REAGENTS WHICH ARE USED FOR WASTEWATER TREATMENT
Canada	Granted	2,555,484	8/4/2006	2,555,484	6/5/2012	7/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
Canada	Granted	2,620,320	2/25/2008	2,620,320	1/28/2014	8/30/2026	AUTO-OXIDATION PRODUCTION OF HYDROGEN PEROXIDE VIA HYDROGENATION IN A MICROREACTOR
Canada	Granted	2,620,353	2/25/2008	2,620,353	5/28/2013	8/30/2026	AUTO-OXIDATION PRODUCTION OF HYDROGEN PEROXIDE VIA OXIDATION IN A MICROREACTOR
Canada	Granted	2,625,080	4/9/2008	2,625,080	8/5/2014	10/20/2026	OXIDATION OF ORGANIC COMPOUNDS
Canada	Pending	2,629,987	4/16/2008				FLUE GAS DESULFURIZATION PROCESS UTILIZING HYDROGEN PEROXIDE
Canada	Pending	2,749,855	7/14/2011				STERILIZATION METHOD
Canada	Pending	2,746,736	6/13/2011				PERACETIC ACID OIL-FIELD BIOCIDES AND METHOD
Canada	Pending	2,769,641	1/30/2012				ACTIVATION OF REACTIVE COMPOUND WITH CATALYST
Canada	Pending	2,760,777	11/2/2011				COMBUSTION FLUE GAS NOX TREATMENT
Canada	Pending	2,823,217	6/26/2013				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
Canada	Pending	2,868,171	9/22/2014				ORGANIC ACID ACTIVATION OF PERSULFATES
Canada	Pending	2,891,465	5/13/2015				CA OF PCT/US13/58453
Canada	Pending	2,672,469	6/11/2009				AN IMPROVED PERACETIC ACID COMPOSITION
Canada	Pending	2,679,772	8/31/2009				RECOVERY OF AQUEOUS HYDROGEN PEROXIDE IN AUTO-OXIDATION H2O2 PRODUCTION
Canada	Pending	2,713,346	7/26/2010				RAPID DILUTION OF PERACID SOLUTIONS TO EQUILIBRATED SOLUTIONS

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
China	Granted	03826945.7	2/21/2006	ZL03826945.7	4/9/2008	8/22/2023	METHOD, DEVICES AND REAGENTS WHICH ARE USED FOR WASTEWATER TREATMENT
China	Granted	201080006823.5	2/1/2010	ZL201080006823.5	5/27/2015	2/1/2030	STERILIZATION METHOD
China	Granted	201080026650.3	5/12/2010	ZL201080026650.3	6/17/2015	5/12/2030	COMBUSTION FLUE GAS NOX TREATMENT
China	Pending	201080043018.X	7/29/2010				ACTIVATION OF REACTIVE COMPOUND WITH CATALYST
China	Pending	201280004429.7	6/28/2013				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
China	Pending	201380022835.0	10/30/2014				ENVIRONMENTAL REMEDIATION PROCESS
China	Pending	201380024885.2	3/13/2012				IMPROVED STERILIZATION METHOD
China	Pending	201380023126.4	3/22/2012				ORGANIC ACID ACTIVATION OF PERSULFATES
Czech Republic	Granted	05723641.6	2/24/2005	CZ-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Denmark	Granted	05723641.6	2/24/2005	DK-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
European Patent Application	Granted	07871725.3	6/11/2009	2094118		12/20/2027	AN IMPROVED PERACETIC ACID COMPOSITION
European Patent Application	Granted	96904564.0	8/22/1997	809609	4/14/1999	2/5/2016	METHOD FOR DEGRADATION OF NITROAROMATIC CONTAMINANTS
European Patent Application	Granted	05723641.6	8/8/2006	1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
European Patent Application	Granted	06813962.5	2/22/2008	1919825	1/4/2012	8/30/2026	AUTO-OXIDATION PRODUCTION OF HYDROGEN PEROXIDE VIA OXIDATION IN A MICROREACTOR
European Patent Application	Pending	03742218.5	12/22/2004				OXIDATION OF ORGANIC COMPOUNDS

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
European Patent Application	Pending	06826363.1	3/26/2008				OXIDATION OF ORGANIC COMPOUNDS
European Patent Application	Granted	03816982.7	12/20/2004	1647529	9/30/2015	8/22/2023	METHOD, DEVICES AND REAGENTS WHICH ARE USED FOR WASTEWATER TREATMENT
European Patent Application	Pending	10775469.9	11/3/2011				COMBUSTION FLUE GAS NOX TREATMENT
European Patent Application	Pending	08782776.2	9/7/2009				RECOVERY OF AQUEOUS HYDROGEN PEROXIDE IN AUTO-OXIDATION H2O2 PRODUCTION
European Patent Application	Pending	10806947.7	1/24/2012				ACTIVATION OF REACTIVE COMPOUND WITH CATALYST
European Patent Application	Pending	04779363.3	1/17/2006				TREATMENT OF ENVIRONMENTAL CONTAMINANTS
European Patent Application	Pending	12736242.4	6/24/2013				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
European Patent Application	Pending	10736519.9	7/26/2011				STERILIZATION METHOD
European Patent Application	Pending	13764134.6	3/21/2013				ORGANIC ACID ACTIVATION OF PERSULFATES
European Patent Application	Pending	13761522.5	3/12/2013				IMPROVED STERILIZATION METHOD
Finland	Granted	05723641.6	2/24/2005	FI-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
France	Granted	07871725.3	12/20/2007	2094118		12/20/2027	AN IMPROVED PERACETIC ACID COMPOSITION

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
France	Granted	96904564.0	2/5/1996	FR-EP0809609	4/14/1999	2/5/2016	COMPOSITION AND METHOD FOR DEGRADATION OF NITROAROMATIC CONTAMINANTS
France	Granted	05723641.6	2/24/2005	FR-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Germany	Granted	602007039299.3	12/20/2007	2094118		12/20/2027	AN IMPROVED PERACETIC ACID COMPOSITION
Germany	Granted	96904564.0	2/5/1996	DE-EP0809609	4/14/1999	2/5/2016	COMPOSITION AND METHOD FOR DEGRADATION OF NITROAROMATIC CONTAMINANTS
Germany	Granted	05723641.6	2/24/2005	DE-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Hong Kong	Pending	14104968.4	1/18/2012				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
Hungary	Granted	05723641.6	2/24/2005	HU-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
India	Granted	840/DELNP/2006	2/17/2006	248538	7/22/2011	8/22/2023	METHOD, DEVICES AND REAGENTS WHICH ARE USED FOR WASTEWATER TREATMENT
India	Pending	5892/DELNP/2011	2/1/2010				STERILIZATION METHOD
India	Pending	979/DELNP/2012	7/29/2010				ACTIVATION OF REACTIVE COMPOUND WITH CATALYST
India	Pending	5855/DELNP/2009	9/10/2009				RECOVERY OF AQUEOUS HYDROGEN PEROXIDE IN AUTO-OXIDATION H2O2 PRODUCTION
Ireland	Granted	05723641.6	2/24/2005	IE-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Italy	Granted	07871725.3	12/20/2007	2094118		12/20/2027	AN IMPROVED PERACETIC ACID COMPOSITION
Italy	Granted	05723641.6	2/24/2005	IT-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
Japan	Pending	2013-550563	7/1/2013				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
Japan	Pending	2015-500513	9/15/2014				IMPROVED STERILIZATION METHOD
Japan	Pending	2015-501899	9/22/2014				ORGANIC ACID ACTIVATION OF PERSULFATES
Malaysia	Pending	PI2014702613	9/13/2014				IMPROVED STERILIZATION METHOD
Mexico	Granted	PA/a/2006/009697	8/25/2006	271525	11/4/2009	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Mexico	Granted	PA/a/2004/012981	12/17/2004	273520	1/12/2010	6/25/2023	OXIDATION OF ORGANIC COMPOUNDS
Mexico	Granted	PA/a/2006/001034	1/26/2006	273547	1/21/2010	7/28/2024	TREATMENT OF ENVIRONMENTAL CONTAMINANTS
Mexico	Granted	MX/a/2008/002901	2/28/2008	276490	6/9/2010	8/30/2026	AUTO-OXIDATION PRODUCTION OF HYDROGEN PEROXIDE VIA HYDROGENATION IN A MICROREACTOR
Mexico	Granted	PA/a/2006/002078	2/22/2006	281901	12/9/2010	8/22/2023	METHOD, DEVICES AND REAGENTS WHICH ARE USED FOR WASTEWATER TREATMENT
Mexico	Granted	MX/a/2009/006649	12/20/2007	294165	1/3/2012	12/20/2027	AN IMPROVED PERACETIC ACID COMPOSITION
Mexico	Granted	MX/a/2008/005635	4/30/2008	301505	7/19/2012	4/30/2028	FLUE GAS DESULFURIZATION PROCESS UTILIZING HYDROGEN PEROXIDE
Mexico	Granted	MX/a/2008/005155	4/18/2008	312217	8/12/2013	10/20/2026	OXIDATION OF ORGANIC COMPOUNDS
Mexico	Granted	MX/a/2011/008133	2/1/2010	325439	11/18/2014	2/1/2030	STERILIZATION METHOD
Mexico	Pending	MX/a/2015/006115	5/14/2015				MX OF PCT/US13/58453
Mexico	Pending	MX/a/2011/006615	12/7/2009				PERACETIC ACID OIL-FIELD BIOCIDES AND METHOD
Mexico	Pending	MX/a/2014/011377	9/22/2014				ENVIRONMENTAL REMEDIATION PROCESS
Mexico	Pending	MX/a/2014/011806	9/15/2014				IMPROVED STERILIZATION METHOD

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
Mexico	Pending	MX/a/2014/011378	9/22/2014				ORGANIC ACID ACTIVATION OF PERSULFATES
Netherlands	Granted	07871725.3	12/20/2007	2094118		12/20/2027	AN IMPROVED PERACETIC ACID COMPOSITION
Netherlands	Granted	05723641.6	2/24/2005	NL-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
New Zealand	Pending	700884	3/12/2013				IMPROVED STERILIZATION METHOD
PCT Application	Pending	PCT/US15/20363	3/13/2015				TREATMENT OF CONTAMINATED SOIL AND WATER
PCT Application	Pending	PCT/US14/44598	6/27/2014				WASTEWATER TREATMENT METHOD
PCT Application	Pending	PCT/US14/55630	9/15/2014				TREATMENT OF NITROGEN OXIDES IN FLUE GAS STREAMS
PCT Application	Pending	PCT/US14/64943	11/11/2014				TREATMENT OF ARSENIC CONTAMINATED SOIL AND WATER
Poland	Granted	05723641.6	2/24/2005	PL-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Russian Federation	Granted	2011136469	9/2/2011	2542442	2/20/2015	2/1/2030	STERILIZATION METHOD
Russian Federation	Pending	2013129819	6/28/2013				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
South Korea	Pending	2013-7016459	1/18/2012				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
South Korea	Pending	2014-7029478	10/21/2014				ORGANIC ACID ACTIVATION OF PERSULFATES
South Korea	Pending	2014-7028636	10/13/2014				IMPROVED STERILIZATION METHOD
Spain	Granted	05723641.6	2/24/2005	ES-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Sweden	Granted	05723641.6	2/24/2005	SE-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Switzerland	Granted	07871725.3	12/20/2007	2094118		12/20/2027	AN IMPROVED PERACETIC ACID COMPOSITION

Country or Region	Status	Application No.	Application Date	Patent No.	Grant Date	Expiration date	Title
Switzerland	Granted	05723641.6	2/24/2005	CH-EP1720802	7/31/2013	2/2/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
Taiwan	Pending	102110097	3/21/2013				ENVIRONMENTAL REMEDIATION PROCESS
Taiwan	Pending	102110098	3/21/2013				ORGANIC ACID ACTIVATION OF PERSULFATES
Thailand	Pending	0601004111	8/28/2006				AUTO-OXIDATION PRODUCTION OF HYDROGEN PEROXIDE VIA HYDROGENATION IN A MICROREACTOR
Thailand	Pending	1401005412	9/15/2014				IMPROVED STERILIZATION METHOD
Thailand	Pending	0701006644	12/21/2007				AN IMPROVED PERACETIC ACID COMPOSITION
Thailand	Pending	1301003734	7/1/2013				PERACETIC ACID VAPOR STERILIZATION OF FOOD AND BEVERAGE CONTAINERS
Turkey	Granted	05723641.6	2/24/2005	TR-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH
United Kingdom	Granted	07871725.3	12/20/2007	2094118		12/20/2027	AN IMPROVED PERACETIC ACID COMPOSITION
United Kingdom	Granted	96904564.0	2/5/1996	GB-EP0809609	4/14/1999	2/5/2016	COMPOSITION AND METHOD FOR DEGRADATION OF NITROAROMATIC CONTAMINANTS
United Kingdom	Granted	05723641.6	2/24/2005	GB-EP1720802	7/31/2013	2/24/2025	OXIDATION OF ORGANIC COMPOUNDS AT HIGH PH