

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2745991

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT
CONVEYING PARTY DATA	
Name	Execution Date
AMERICAN PACIFIC CORPORATION	02/27/2014
RECEIVING PARTY DATA	
Name:	JEFFERIES FINANCE LLC, AS ADMINISTRATIVE AGENT
Street Address:	520 MADISON AVENUE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10022
PROPERTY NUMBERS Total: 7	
Property Type	Number
Patent Number:	5616234
Patent Number:	5688385
Patent Number:	8524105
Patent Number:	8096366
Patent Number:	6024860
Application Number:	13646535
Application Number:	13509580
CORRESPONDENCE DATA	
Fax Number:	(212)751-4864
Phone:	212-906-1200
Email:	angela.amaru@lw.com
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>	
Correspondent Name:	LATHAM & WATKINS LLP C/O ANGELA M. AMARU
Address Line 1:	885 THIRD AVENUE
Address Line 2:	SUITE 1000
Address Line 4:	NEW YORK, NEW YORK 10022

ATTORNEY DOCKET NUMBER:	038507-0356
NAME OF SUBMITTER:	ANGELA M. AMARU
Signature:	/s/ Angela M. Amaru
Date:	02/27/2014

Total Attachments: 11

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GRANT OF SECURITY INTEREST
IN PATENTS

This Grant of Security Interest in Patents, dated as of February 27, 2014 (as amended, restated, amended and restated, supplemented and/or otherwise modified from time to time, this “Agreement”), is made by the entities identified as grantors on the signature pages hereto (collectively, the “Grantors”) in favor of Jefferies Finance LLC, as administrative agent, (the “Administrative Agent”).

THIS GRANT is made to secure the payment or performance, as the case may be, in full of the Secured Obligations, as such term is defined in the Security Agreement among the Grantors, the other assignors from time to time party thereto and the Grantee, dated as of February 27, 2014 (as amended, restated, amended and restated, supplemented and/or otherwise modified from time to time, the “Security Agreement”).

NOW THEREFORE, IN CONSIDERATION OF THE FOREGOING AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, receipt and sufficiency of which are hereby acknowledged, the Grantors hereby agree with the Administrative Agent as follows:

SECTION 1. Defined Terms

Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral

SECTION 2.1. Each Grantor hereby assigns and pledges to the Administrative Agent, its successors and assigns, for the benefit of the Secured Parties, and hereby grants to the Administrative Agent, its successors and assigns, for the benefit of the Secured Parties, a security interest (the “Security Interest”) in, all right, title or interest in, to or under any and all of the following assets and properties now owned or at any time hereafter acquired by such Grantor or

in which such Grantor now has or at any time in the future may acquire any right, title or interest (collectively, the "Patent Collateral"):

(a) all letters patent of the United States or the equivalent thereof in any other country, all registrations and recordings thereof, and all applications for letters patent of the United States or the equivalent thereof in any other country, including registrations, recordings and pending applications in the United States Patent and Trademark Office or any similar offices in any other country, including those listed on Schedule A attached hereto, (b) all rights and privileges arising under applicable Law with respect to such Grantor's use of any patents, (c) all inventions and improvements described and claimed therein, (d) all reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof and amendments thereto, (e) all income, fees, royalties, damages, claims and payments now or hereafter due and/or payable with respect to any of the foregoing including damages and payments for past, present or future infringements thereof, (f) all rights corresponding thereto throughout the world and (g) rights to sue for past, present or future infringements thereof.

SECTION 3. Security Agreement.

This Grant has been granted in conjunction with the security interest granted to the Grantee under the Security Agreement. The rights and remedies of the Grantee with respect to the security interest granted herein are as set forth in the Security Agreement, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this Grant are deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

SECTION 4. Governing Law

THIS AGREEMENT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF NEW YORK.

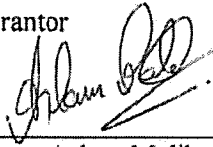
SECTION 5. Counterparts

This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the undersigned have executed this Grant as of the date first set forth above.

AMPAC FINE CHEMICALS, LLC,
as a Grantor

By 
Name: Aslam Malik
Title: President

AMERICAN PACIFIC CORPORATION,
a Delaware corporation,
as a Grantor

By _____
Name: Joseph Carleone
Title: President

AMERICAN PACIFIC CORPORATION,
a Nevada corporation,
as a Grantor

By _____
Name: Joseph Carleone
Title: President

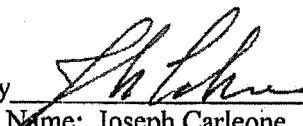
[Signature Page to Grant of Security Interest in Patents]

IN WITNESS WHEREOF, the undersigned have executed this Grant as of the date first set forth above.

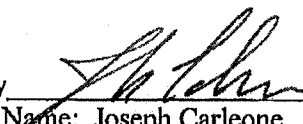
AMPAC FINE CHEMICALS, LLC,
as a Grantor

By _____
Name: Aslam Malik
Title: President

AMERICAN PACIFIC CORPORATION,
a Delaware corporation,
as a Grantor

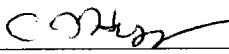
By  _____
Name: Joseph Carleone
Title: President

AMERICAN PACIFIC CORPORATION,
a Nevada corporation,
as a Grantor

By  _____
Name: Joseph Carleone
Title: President

[Signature Page to Grant of Security Interest in Patents]

JEFFERIES FINANCE LLC,
as Administrative Agent

By 
Name: E. Joseph Hess
Title: Managing Director

[Signature Page to Grant of Security Interest in Patents]

PATENT
REEL: 032365 FRAME: 0132

Schedule A

PATENTS AND PATENT APPLICATIONS

	Patent Title	Application Number Application Date	Registration Number Grant Date	Status	Owner
1.	METHOD FOR PRODUCING CHLORINE OR HYPOCHLORITE PRODUCT	08551290 10/31/1995	5616234 4/1/1997	ISSUED	American Pacific Corporation
2.	APPARATUS FOR PRODUCING CHLORINE ON-SITE	08621161 3/22/1996	5688385 11/18/1997	ISSUED	American Pacific Corporation
3.	ENVIRONMENTALLY BENEFICIAL AND EFFECTIVE HYDROCHLOROFLUOROCARBON COMPOSITIONS FOR FIRE EXTINGUISHING APPLICATIONS	13350430 1/13/2012	8524105 9/3/2013	ISSUED	American Pacific Corporation
4.	ENVIRONMENTALLY BENEFICIAL AND EFFECTIVE HYDROCHLOROFLUOROCARBON COMPOSITIONS FOR FIRE EXTINGUISHING APPLICATIONS	13026177 2/11/2011	8096366 1/17/2012	ISSUED	American Pacific Corporation
5.	BROMOFLUOROCARBON COMPOSITIONS	13646535 10/5/2012	---	PENDING	American Pacific Corporation
6.	REDUCTION OF ALDEHYDES AND KETONES TO ALCOHOLS	13509580 11/29/2012	---	PENDING	<i>American Pacific Corporation Jointly owned by Georgia Tech Research Corporation</i>
7.	SYSTEM FOR ELECTROCHEMICAL DECOMPOSITION OF SODIUM AZIDE	08911982 8/15/1997	6024860 2/15/2000	ISSUED	American Pacific Corporation
8.	BROMOFLUOROCARBON COMPOSITIONS	13269387 10/7/2011	---	PENDING NOT YET PUBLISHED	American Pacific Corporation
9.	PREPARATION OF MONO-SUBSTITUTED FLUORINATED OXETANE PREPOLYMERS	08539555 10/5/1995	5650483 7/22/1997	ISSUED	AMPAC Fine Chemicals LLC
10.	MONO-SUBSTITUTED FLUORINATED OXETANE MONOMERS	08539696 10/5/1995	5654450 8/5/1997	ISSUED	Ampac Fine Chemicals LLC
11.	POLYETHER COPREPOLYMERS FORMED FROM MONO-SUBSTITUTED FLUORINATED OXETANE MONOMERS AND TETRAHYDROFURAN	08483219 6/7/1995	5668250 9/16/1997	ISSUED	Ampac Fine Chemicals LLC
12.	PREPARATION OF MONO-SUBSTITUTED FLUORINATED MONOMERS AND TETRAHYDROFURAN	08539405 10/5/1995	5668251 9/16/1997	ISSUED	Ampac Fine Chemicals LLC
13.	ABRASION-RESISTANT AND LOW FRICTION COATING COMPOSITIONS	08510686 8/3/1995	5674951 10/7/1997	ISSUED	<i>Ampac Fine Chemicals LLC Jointly owned with Gencorp</i>

	Patent Title	Application Number Application Date	Registration Number Grant Date	Status	Owner
					<i>Inc.</i>
14	POLYMERS AND PREPOLYMERS FROM MONO-SUBSTITUTED FLUORINATED OXETANE MONOMERS	08371914 1/12/1995	5807977 9/15/1998	ISSUED	Ampac Fine Chemicals LLC
15	LARGE SCALE BATCH PROCESS FOR DIAZOMETHANE	08970035 11/13/1997	5817778 10/6/1998	ISSUED	Ampac Fine Chemicals LLC
16	CONTINUOUS PROCESS FOR DIAZOMETHANE FROM AN N-METHYLY-N-NITROSOMAMINE AND FROM METHYLUREA THROUGH N-METHYL-N-NITROSUREA	08969993 11/13/1997	5854405 12/29/1998	ISSUED	Ampac Fine Chemicals LLC
17	SOLVENT-FREE PROCESS FOR THE PREPARATION OF MONO-SUBSTITUTED FLUORINATED OXETANE MONOMERS	08477168 6/7/1995	6037483 3/14/2000	ISSUED	Ampac Fine Chemicals LLC
18	COPOLYMERS AND COPREPOLYMERS FORMED FROM MONO-SUBSTITUTED FLUORINATED OXETANE MONOMERS AND TETRAHYDROFURAN	09521258 3/8/2000	6380351 4/30/2002	ISSUED	Ampac Fine Chemicals LLC
19	MONOHYDRIC POLYFLUOROOXETANE POLYMER AND RADIATION CURABLE COATINGS CONTAINING A MONOFUNCTIONAL POLYFLUOROOXETANE POLYMER	09473518 12/28/1999	6403760 6/11/2002	ISSUED	<i>AMPAC Fine Chemicals LLC Owned jointly With Ommova Solutions Inc.</i>
20	FLUORINATED POLYURETHANE ELASTOMERS PREPARED FROM POLYETHER PREPOLYMERS FORMED FROM MONO-SUBSTITUTED FLUORINATED OXETANE MONOMERS	09520815 3/8/2000	6417314 7/9/2002	ISSUED	Ampac Fine Chemicals LLC
21	POLYMERS AND PREPOLYMERS FORMED FROM MONO-SUBSTITUTED FLUORINATED OXETANE MONOMERS	09521263 3/8/2000	6448368 9/10/2002	ISSUED	Ampac Fine Chemicals LLC
22	AMORPHOUS POLYETHER GLYCOLS BASED ON BIS-SUBSTITUTED OXETANE MONOMERS	09615160 7/13/2000	6479623 11/12/2002	ISSUED	Ampac Fine Chemicals LLC
23	PREPARATION OF 2S,3S-N-ISOBUTYL-N-(2-HYDROXY-3-AMINO-4-PHENYLBUTYL) -P-NITROBENZENESULFONYLAMIDE HYDROCHLORIDE AND OTHER DERIVATIVES OF 2-HYDROXY-1,3-DIAMINES	09747372 12/22/2000	6548706 4/15/2003	ISSUED	Ampac Fine Chemicals LLC
24	CLEAN, HIGH-YIELD PREPARATION OF S,S AND R,S AMINO ACID ISOSTERES	09321645 5/28/1999	6605732 8/12/2003	ISSUED	Ampac Fine Chemicals LLC

	Patent Title	Application Number Application Date	Registration Number Grant Date	Status	Owner
25	RADIATION CURABLE COATING CONTAINING POLYFLUOROOXETANE	09397715 9/16/1999	6673889 1/6/2004	ISSUED	AMPAC Fine Chemicals LLC Owned jointly With Omnova Solutions Inc.
26	MONOHYDRIC POLYFLUOROOXETANE POLYMER AND RADIATION CURABLE COATINGS CONTAINING A MONOFUNCTIONAL POLYFLUOROOXETANE POLYMER	10108318 3/28/2002	6727344 4/27/2004	ISSUED	AMPAC Fine Chemicals LLC Owned jointly With Omnova Solutions Inc.
27	PREPARATION OF 2S,3S-N-ISOBUTYL-N-(2-HYDROXY-3-AMINO-4-PHENYLBUTYL)-P-NITROBENZENESULFONYLAMIDE HYDROCHLORIDE AND OTHER DERIVATIVES OF 2-HYDROXY-1,3-DIAMINES	10382185 3/4/2003	6852887 2/8/2005	ISSUED	Ampac Fine Chemicals LLC
28	CLEAN, HIGH-YIELD PREPARATION OF S,S AND R,S AMINO ACID ISOTERES	10414541 4/14/2003	6867311 3/15/2005	ISSUED	Ampac Fine Chemicals LLC
29	FLUORINATED POLYURETHANE ELASTOMERS PREPARED FROM POLYETHER PREPOLYMERS FORMED FROM MONOSUBSTITUTED FLUORINATED OXETANE MONOMERS AND TETRAHYDROFURAN	09520476 3/8/2000	6891013 5/10/2005	ISSUED	Ampac Fine Chemicals LLC
30	MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS, AND COPOLYMERS AND COATING CONTAINING THE SAME	10316412 12/11/2002	6927276 8/9/2005	ISSUED	AMPAC Fine Chemicals LLC Owned jointly With Omnova Solutions Inc.
31	MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS, AND COPOLYMERS AND COATINGS CONTAINING THE SAME	09727637 12/1/2000	6962966 11/8/2005	ISSUED	AMPAC Fine Chemicals LLC Owned jointly With Omnova Solutions Inc.
32	MONOHYDRIC POLYFLUOROOXETANE POLYMER AND RADIATION CURABLE COATINGS CONTAINING A MONOFUNCTIONAL POLYFLUOROOXETANE POLYMER	10108916 3/28/2002	6972317 12/6/2005	ISSUED	AMPAC Fine Chemicals LLC Owned jointly With Omnova Solutions Inc.
33	AMORPHOUS POLYETHER GLYCOLS BASED ON BIS-SUBSTITUTED OXETANE AND TETRAHYDROFURAN MONOMERS	10999362 11/29/2004	6998460 2/14/2006	ISSUED	AMPAC Fine Chemicals LLC Owned jointly With Omnova Solutions Inc. And United States of America, as represented by

	Patent Title	Application Number Application Date	Registration Number Grant Date	Status	Owner
					<i>the the Secretary of the Navy</i>
34	CLEAN, HIGH-YIELD PREPARATION OF S,S AND R,S AMINO ACID ISOSTERES	11081106 3/14/2005	7309803 12/18/2007	ISSUED	Ampac Fine Chemicals LLC
35	FLUORINATED THERMOSET POLYURETHANE ELASTOMERS PREPARED FROM POLYETHER PREPOLYMERS FORMED FROM MONO-SUBSTITUTED FLUORINATED OXETANE MONOMERS	10678663 10/3/2003	7354985 4/8/2008	ISSUED	Ampac Fine Chemicals LLC
36	PROCESS FOR HALOMETHYL ETHERS OF HYDROXYIMINOMETHYL QUATERNARY PYRIDINIUM SALTS	12274133 11/19/2008	RE41898 10/26/2010	RE-ISSUED Of patent 7414135	Ampac Fine Chemicals LLC
37	PREPARATION OF 2S,3S-N- ISOBUTYL-N-(2-HYDROXY-3- AMINO-4-PHENYLBUTYL)-P- NITROBENZENESULFONYLAMIDE HYDROCHLORIDE AND OTHER DERIVATIVES OF 2-HYDROXY- 1,3-DIAMINES	11052934 2/7/2005	7414144 8/19/2008	ISSUED	Ampac Fine Chemicals LLC
38	SIMULATED MOVING BED CHROMATOGRAPHY FOR STRONGLY RETAINED COMPOUNDS	12059651 3/31/2008	7618539 11/17/2009	ISSUED	Ampac Fine Chemicals LLC
39	PREPARATION OF 2R,3S-N- ISOBUTYL-N-(2-HYDROXY-3- AMINO-4-PHENYLBUTYL)-P- NITROBENZENESULFONYLAMIDE HYDROCHLORIDE AND OTHER DERIVATIVES OF 2-HYDROXY- 1,3-DIAMINES	12190713 8/13/2008	7807850 10/5/2010	ISSUED	Ampac Fine Chemicals LLC
40	PREPARATIVE-SCALE SEPARATION OF ENANTIOMERS OF CHIRAL CARBOXYLIC ACIDS	11750502 5/18/2007	8076511 12/13/2011	ISSUED	Ampac Fine Chemicals LLC
41	PREPARATION OF POLYMER- FREE R-(+)-ALPHA-LIPOIC ACID MAGNESIUM SALT	12483918 6/12/2009	8080674 12/20/2011	ISSUED	Ampac Fine Chemicals LLC
42	CLEAN, HIGH-YIELD PREPARATION OF S,S AND R,S AMINO ACID ISOSTERES	11956515 12/14/2007	8163933 4/24/2012	ISSUED	Ampac Fine Chemicals LLC
43	PROCESS FOR THE PREPARATION OF 3-CYANO-1, 2, 4-TRIAZOLES	12437711 5/8/2009	8198461 6/12/2012	ISSUED	Ampac Fine Chemicals LLC
44	PREPARATION OF 2R,3S-N- ISOBUTYL-N-(2-HYDROXY-3- AMINO-4-PHENYLBUTYL)-P- NITROBENZENESULFONYLAMIDE HYDROCHLORIDE AND OTHER DERIVATIVES OF 2-HYDROXY- 1,3-DIAMINES	12840832 7/21/2010	---	PENDING PUBLISHED	Ampac Fine Chemicals LLC
45	REACTION SYSTEMS WITH INCORPORATED CHROMATOGRAPHY UNITS FOR	13190781 7/26/2011	8357302 1/22/2013	ISSUED	Ampac Fine Chemicals LLC

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	ENHANCED PRODUCT RECOVERY				