

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4687345

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                   |
| <b>CONVEYING PARTY DATA</b>   |                              |
| <b>Name</b>   | <b>Execution Date</b>        |
| AIR PRODUCTS AND CHEMICALS, INC.  | 01/03/2017                   |
| <b>RECEIVING PARTY DATA</b>   |                              |
| <b>Name:</b>  | EVONIK DEGUSSA GMBH          |
| <b>Street Address:</b>  | RELLINGHAUSER STRASSE 1-11   |
| <b>City:</b>  | ESSEN                        |
| <b>State/Country:</b>   | GERMANY                      |
| <b>Postal Code:</b>   | 45128                        |
| <b>PROPERTY NUMBERS Total: 9</b>  |                              |
| <b>Property Type</b>  | <b>Number</b>                |
| Application Number:   | 09703311                     |
| Application Number:   | 09633664                     |
| Application Number:   | 10385890                     |
| Application Number:   | 10724886                     |
| Application Number:   | 11418037                     |
| Application Number:   | 11485725                     |
| Application Number:   | 11336023                     |
| Application Number:   | 11811800                     |
| Application Number:   | 12207745                     |
| <b>CORRESPONDENCE DATA</b>  |                              |
| <b>Fax Number:</b>  | (973)929-8839                |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                              |
| <b>Phone:</b>   | 9739298833                   |
| <b>Email:</b>   | ipm-na@evonik.com            |
| <b>Correspondent Name:</b>  | EVONIK CORPORATION           |
| <b>Address Line 1:</b>  | 299 JEFFERSON ROAD           |
| <b>Address Line 4:</b>  | PARSIPPANY, NEW JERSEY 07054 |
| <b>NAME OF SUBMITTER:</b>   | ANDREW H. CHUNG              |
| <b>SIGNATURE:</b>   | /Andrew H. Chung/            |

11/14/2017

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PATENT ASSIGNMENT

This PATENT ASSIGNMENT (this "Assignment"), dated as of January 3, 2017 (the "Effective Date"), is by and between Air Products and Chemicals, Inc., a Delaware corporation ("Assignor"), and Evonik Degussa GmbH, a German *Gesellschaft mit beschränkter Haftung* ("Assignee"), (each a "Party" and collectively, the "Parties"). All capitalized terms used, but not defined herein, shall have the meanings ascribed to such terms in the Purchase Agreement.

**WHEREAS**, the Parties and certain of their Affiliates have entered into that certain Purchase Agreement, dated as of May 6, 2016, as amended (the "Purchase Agreement"); and

**WHEREAS**, in contemplation of the Purchase Agreement, Assignor has agreed to, and has agreed to cause certain of its Affiliates to, assign, transfer and convey to Assignee all of Assignor's and certain of its Affiliates' right, title, and interest in and to the patents, patent applications and invention disclosures set forth on Schedule A hereto (collectively, the "Assigned Patents"), pursuant to the terms of the Purchase Agreement.

**NOW, THEREFORE**, in consideration of the foregoing and the mutual agreements, provisions and covenants contained in this Assignment, the Parties hereby agree as follows:

1. Conveyance. Assignor does hereby assign, transfer and convey to Assignee all of Assignor's right, title and interest in and to the Assigned Patents and any and all related continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, in each case together with all rights and remedies against past, present, and future infringement or other violation thereof. Without limiting the foregoing, with respect to any Assigned Patent that is registered to or otherwise in the name of an Affiliate of Assignor, including as indicated on Schedule A hereto, Assignor shall cause such Affiliate to effect the assignment of such Assigned Patent to Assignee in accordance herewith and subject to the terms and conditions hereof, it being understood and agreed that Assignee shall have the right to use such Assigned Patent as if assigned to it by Assignor hereunder as of the Effective Date.

2. Recordation. The Parties agree to reasonably cooperate with each other with respect to preparing instruments to record Assignee as the owner of the Assigned Patents in the United States Patent and Trademark Office and any other applicable foreign Governmental Entity or registrar, in each case in form and substance reasonably acceptable to the Parties and in accordance with the applicable Laws of the jurisdiction to which such instrument pertains (with Assignee principally preparing such documents), and Assignee shall have the right and responsibility to record such instrument with the applicable Governmental Entity or registrar, in each case at Assignee's sole cost and expense. Notwithstanding anything to the contrary in any such instrument, to the extent of any conflict or inconsistency between this Assignment and such instrument, this Assignment shall control.

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3. Disclaimer of Representations and Warranties. Except as and to the extent set forth in the Purchase Agreement, ASSIGNEE (ON BEHALF OF ITSELF AND EACH OF ITS AFFILIATES) UNDERSTANDS AND AGREES THAT NO PARTY TO THIS ASSIGNMENT IS REPRESENTING OR WARRANTING IN ANY WAY, AND HEREBY DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, AS TO THE ASSIGNED PATENTS, INCLUDING THE NONINFRINGEMENT OR ABSENCE OF OTHER VIOLATION, VALIDITY OR ENFORCEABILITY OR ANY OTHER MATTER CONCERNING THE ASSIGNED PATENTS, AND ALL OF THE ASSIGNED PATENTS ARE BEING TRANSFERRED ON AN "AS IS, WHERE IS" BASIS.

4. Further Assurances. Without limitation to Section 2 above, at any time and from time to time hereafter, at any Party's request and expense, each Party shall take any and all steps and shall execute, acknowledge and deliver to the other party any and all future instruments and assurances necessary or reasonably requested in order to more fully carry out the purposes hereof.

5. No Conflict. Notwithstanding anything to the contrary contained in this Assignment, nothing contained in this Assignment is intended to, shall or shall be deemed to supersede, modify, alter, amend, expand upon or otherwise change any of the rights, remedies or obligations of the Parties and their respective Affiliates under the Purchase Agreement.

6. Successors and Assigns. The provisions of this Assignment and the obligations and rights hereunder shall be binding upon, inure to the benefit of and be enforceable by (and against) the Parties and their respective heirs, beneficiaries, executors, representatives, successors and permitted transferees and assigns.

7. Counterparts. This Assignment may be executed in more than one counterpart, all of which shall be considered one and the same agreement, and shall become effective when one or more such counterparts have been signed by each of the Parties and delivered to each of the Parties.

8. Title and Headings. Titles and headings to sections herein are inserted for the convenience of reference only and are not intended to be a part of or to affect the meaning or interpretation of this Assignment.

9. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the State of Delaware, regardless of the laws that might otherwise govern under applicable principles of conflicts of laws thereof.

10. Jurisdiction, Forum, Etc.

(a) The parties hereto agree that the appropriate, exclusive, and convenient forum for any disputes between any of the parties hereto arising out of this Assignment or the transactions contemplated hereby shall be in any court in the State of Delaware and each of the parties hereto irrevocably submits to the jurisdiction of such courts solely in respect of any action

or proceeding arising out of or related to this Assignment. The parties hereto further agree that the parties will not bring suit with respect to any disputes arising out of this Assignment or the transactions contemplated hereby in any court or jurisdiction other than the above specified courts; provided, however, that the foregoing shall not limit (i) Assignor's or any of its Subsidiaries' ability or right to join, implead or otherwise bring any third-party claim against Assignee or any of its Subsidiaries in an action brought against Assignor or any of its Subsidiaries by a third party in a jurisdiction outside of the State of Delaware and Assignee agrees that, pursuant to Section 10(b), Assignee (and its Subsidiaries, as applicable) will submit to such jurisdiction or (ii) Assignee's or any of its Subsidiaries' ability or right to join, implead or otherwise bring any third-party claim against Assignor or any of its Subsidiaries in an action brought against Assignee or any of its Subsidiaries by a third party in a jurisdiction outside of the State of Delaware and Assignor agrees that, pursuant to Section 10(b), Assignor (and its Subsidiaries, as applicable) will submit to such jurisdiction. The parties hereto further agree, to the extent permitted by law, that final and unappealable judgment against a party in any action or proceeding contemplated above shall be conclusive and may be enforced in any other jurisdiction within or outside the State of Delaware by suit on the judgment, a certified or exemplified copy of which shall be conclusive evidence of the fact and amount of such judgment.

(b) To the extent that any party hereto has or hereafter may acquire any immunity from jurisdiction of any court or from any legal process (whether through service or notice, attachment prior to judgment, attachment in aid of execution, execution or otherwise) with respect to itself or its property, each such party hereby irrevocably (i) waives such immunity in respect of its obligations with respect to this Assignment, and (ii) submits to the personal jurisdiction of any court described in Section 10(a).

(c) THE PARTIES HERETO AGREE THAT THEY HEREBY IRREVOCABLY WAIVE THE RIGHT TO TRIAL BY JURY IN ANY ACTION OR PROCEEDING TO ENFORCE OR INTERPRET THE PROVISIONS OF THIS ASSIGNMENT.

11. Amendment. This Assignment only may be amended, modified or supplemented by an instrument in writing signed by the Parties.

*[Signature Page Follows]*

IN WITNESS WHEREOF, the Parties have caused this Assignment to be duly executed as of the day and year first above written.

ASSIGNOR:

AIR PRODUCTS AND CHEMICALS, INC.

By: 

Name: M. Scott Crocco

Title: Executive Vice President and Chief  
Financial Officer

Acknowledged and Accepted:

EVONIK DEGUSSA GMBH

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

*[Signature Page to Patent Assignment]*

IN WITNESS WHEREOF, the Parties have caused this Assignment to be duly executed as of the day and year first above written.

ASSIGNOR:

AIR PRODUCTS AND CHEMICALS, INC.

By: \_\_\_\_\_  
Name: M. Scott Crocco  
Title: Executive Vice President and Chief  
Financial Officer

Acknowledged and Accepted:

EVONIK DEGUSSA GMBH

By: \_\_\_\_\_  
Name: PETRA KOTTMEIER  
Title: Legal Counsel E&A

By: \_\_\_\_\_  
NAME: SHANTI STRASSER  
TITLE: VP M&A

*Based on power of attorney dated  
30 November 2016*

[Signature Page to Patent Assignment]



SCHEDULE A TO PATENT ASSIGNMENT

PATENTS, PATENT APPLICATIONS AND INVENTION DISCLOSURES

See attached.

| <b>Jurisdiction</b> | <b>Title</b> | <b>App. No.<br/>(App. Date)</b> | <b>Issue No.<br/>(Issue Date)</b> | <b>Record<br/>Owner</b> |
|---------------------|--------------|---------------------------------|-----------------------------------|-------------------------|
|                     |              |                                 |                                   |                         |

| <u>Case Number</u> | <u>Country</u> | <u>Status</u> | <u>Application Number</u> | <u>Application Date</u> | <u>Patent Number</u> | <u>Grant Date</u> | <u>Title</u>   | <u>Entity Code</u> |
|--------------------|----------------|---------------|---------------------------|-------------------------|----------------------|-------------------|--|--------------------|
| 4880               | United States  | ISSUED        | 08/043646                 | 4/6/1993                | 6140540              | 10/31/2000        | HYDROGENATION OF AROMATIC AMINES TO PRODUCE THEIR RING HYDROGENATED COUNTERPARTS | 9650               |
| 4881               | United States  | ISSUED        | 08/040311                 | 3/30/1993               | 6121493              | 9/19/2000         | ISOMERIZATION OF CYCLOHEXYLAMINES TO PRODUCE THEIR THERMODYNAMIC ISOMERIC FORM   | 9650               |
| 5431               | Brazil         | ISSUED        | P19603847-0               | 9/23/1996               | P19603847-0          | 6/21/2005         | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 5431               | France         | ISSUED        | 96115409.3                | 9/25/1996               | 765892               | 4/12/2000         | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 5431               | Germany        | ISSUED        | 96115409.3                | 9/25/1996               | 69607711.6           | 4/12/2000         | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 5431               | Great Britain  | ISSUED        | 96115409.3                | 9/25/1996               | 765892               | 4/12/2000         | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 5431               | Italy          | ISSUED        | 5.02001E+14               | 9/25/1996               | 765892               | 4/12/2000         | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 5431               | Japan          | ISSUED        | 254315/1996               | 9/26/1996               | 2967578              | 8/20/1999         | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 5431               | Korea South    | ISSUED        | 96-41969                  | 9/24/1996               | 215953               | 5/26/1999         | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 5431               | Mexico         | ISSUED        | 964243                    | 9/23/1996               | 197949               | 8/7/2000          | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 05431D             | China P.R.     | ISSUED        | 133996.6                  | 9/27/1996               | ZL00133996.6         | 10/22/2003        | AMINOPROPYLBIS(AMINOETHYL)ETHER COMPOSITIONS FOR THE PRODUCTION OF POLYURETHANES | 9650               |
| 5474               | United States  | ISSUED        | 08/356663                 | 12/15/1994              | 6040385              | 3/21/2000         | ADHESION PROMOTERS FOR PLASTISOLS  | 9630               |

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|---------|---------------|--------|-------------|------------|--------------|-----------|---|------|
| 05508P2 | United States | ISSUED | 08/9/19023  | 8/27/1997  | 5807903      | 9/15/1998 | METHOD FOR PREPARING FLEXIBLE POLYURETHANE FOAMS  | 9650 |
| 5655    | United States | ISSUED | 08/960909   | 10/30/1997 | 5869653      | 2/9/1999  | HYDROGENATION OF NITRILES TO PRODUCE AMINES   | 9650 |
| 5688    | Brazil        | ISSUED | P19801660-1 | 5/19/1998  | P19801660-1  | 4/25/2006 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | China P.R.    | ISSUED | 98115094.2  | 5/21/1998  | ZL98115094.2 | 3/26/2003 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | France        | ISSUED | 98109233.1  | 5/20/1998  | 879837       | 7/14/2004 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | Germany       | ISSUED | 98109233.1  | 5/20/1998  | 69824990.9   | 7/14/2004 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | Great Britain | ISSUED | 98109233.1  | 5/20/1998  | 879837       | 7/14/2004 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | Italy         | ISSUED | 5 02005E+14 | 5/20/1998  | 879837       | 7/14/2004 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | Japan         | ISSUED | 138270/1998 | 5/20/1998  | 3273134      | 1/25/2002 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | Korea South   | ISSUED | 98-17776    | 5/18/1998  | 255721       | 2/16/2000 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | Mexico        | ISSUED | 984006      | 5/20/1998  | 196667       | 5/26/2000 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE   | 9650 |
| 5688    | United States | ISSUED | 08/861138   | 5/21/1997  | 5859079      | 1/12/1999 | POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE | 9650 |
| 5698    | Brazil        | ISSUED | P19801534-6 | 4/30/1998  | P19801534-6  | 12/6/2005 | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE  | 9650 |
| 5698    | China P.R.    | ISSUED | 98107774.9  | 5/4/1998   | ZL98107774.9 | 6/1/2005  | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE  | 9650 |
| 5698    | France        | ISSUED | 98107858.7  | 4/29/1998  | 877042       | 9/22/2004 | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE  | 9650 |

|         |               |        |             |            |            |            |   |      |
|---------|---------------|--------|-------------|------------|------------|------------|---|------|
| 5698    | Germany       | ISSUED | 98107858.7  | 4/29/1998  | 69826361.8 | 9/22/2004  | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE                                      | 9650 |
| 5698    | Great Britain | ISSUED | 98107858.7  | 4/29/1998  | 877042     | 9/22/2004  | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE                                      | 9650 |
| 5698    | Italy         | ISSUED | 5.02005E+14 | 4/29/1998  | 877042     | 9/22/2004  | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE                                      | 9650 |
| 5698    | Japan         | ISSUED | 122034/1998 | 5/1/1998   | 3273132    | 1/25/2002  | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE                                      | 9650 |
| 5698    | Korea South   | ISSUED | 98-15765    | 5/1/1998   | 274116     | 9/7/2000   | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE                                      | 9650 |
| 5698    | Mexico        | ISSUED | 983520      | 5/4/1998   | 206238     | 1/29/2002  | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE                                      | 9650 |
| 5698    | United States | ISSUED | 08/879472   | 6/20/1997  | 6232356    | 5/15/2001  | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE                                      | 9650 |
| 05698P2 | United States | ISSUED | 09/256932   | 2/24/1999  | 6201033    | 3/13/2001  | REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE                                      | 9650 |
| 5737    | United States | ISSUED | 08/974284   | 11/19/1997 | 6008313    | 12/28/1999 | Polyamide Curing Agents Based on Mixtures of Polyethylenamines and Piperazine Derivatives                                   | 9630 |
| 5748    | United States | ISSUED | 08/985137   | 12/4/1997  | 5948881    | 9/7/1999   | POLYAMIDE CURING AGENTS BASED ON MIXTURES OF POLYETHYLENE-AMINES, PIPERAZINES AND DEAMINATED BIS-(P-AMINOCYCLOHEXYL)METHANE | 9630 |
| 5873    | Japan         | ISSUED | 2000-171480 | 6/8/2000   | 3782643    | 3/17/2006  | Polyurethane Catalyst Compositions for Improving Rigid Foam Performance   | 9650 |
| 5873    | United States | ISSUED | 09/328674   | 6/9/1999   | 6114403    | 9/5/2000   | Polyurethane Catalyst Compositions for Improving Rigid Foam Performance   | 9650 |
| 05873D  | Germany       | ISSUED | 4028051.3   | 6/6/2000   | 60046415.6 | 8/31/2011  | Polyurethane Catalyst Compositions for Improving Rigid Foam Performance   | 9650 |
| 05873D  | Great Britain | ISSUED | 4028051.3   | 6/6/2000   | 1518872    | 8/31/2011  | Polyurethane Catalyst Compositions for Improving Rigid Foam Performance   | 9650 |
| 05873D  | Italy         | ISSUED | 5.02012E+14 | 6/6/2000   | 1518872    | 8/31/2011  | Polyurethane Catalyst Compositions for Improving Rigid Foam Performance   | 9650 |

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|---------|---------------|--------|-------------|------------|------------|------------|--|------|
| 05873D  | Spain         | ISSUED | 4028051.3   | 6/6/2000   | 1518872    | 8/31/2011  | Rigid Foam Performance<br>Polyurethane Catalyst Compositions for Improving<br>Rigid Foam Performance | 9650 |
| 5900    | United States | ISSUED | 09/304607   | 5/4/1999   | 6313182    | 11/6/2001  | ACETYLENIC DIOL ETHYLENE OXIDE/PROPYLENE OXIDE<br>ADDUCTS AND PROCESSES FOR THEIR MANUFACTURE        | 9620 |
| 05900P  | United States | ISSUED | 09/975135   | 10/11/2001 | 6864395    | 3/8/2005   | ACETYLENIC DIOL ETHYLENE OXIDE/PROPYLENE OXIDE<br>ADDUCTS AND PROCESSES FOR THEIR MANUFACTURE        | 9620 |
| 05900P2 | United States | ISSUED | 11/048576   | 2/1/2005   | 7348300    | 3/25/2008  | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts and Processes for their Manufacture        | 9620 |
| 5914    | France        | ISSUED | 1100222.7   | 1/2/2001   | 1115035    | 10/3/2012  | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 5914    | Germany       | ISSUED | 1100222.7   | 1/2/2001   | 60147183   | 10/3/2012  | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 5914    | Great Britain | ISSUED | 1100222.7   | 1/2/2001   | 1115035    | 10/3/2012  | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 5914    | Italy         | ISSUED | 5.02013E+14 | 1/2/2001   | 1115035    | 10/3/2012  | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 5914    | Netherlands   | ISSUED | 1100222.7   | 1/2/2001   | 1115035    | 10/3/2012  | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 5914    | Spain         | ISSUED | 1100222.7   | 1/2/2001   | 1115035    | 10/3/2012  | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 5914    | Taiwan        | ISSUED | 90100043    | 1/2/2001   | 188646     | 10/11/2003 | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 05914D  | Austria       | ISSUED | 12000162.3  | 1/2/2001   | EG09862    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 05914D  | Denmark       | ISSUED | 12000162.3  | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 05914D  | France        | ISSUED | 12000162.3  | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |
| 05914D  | Germany       | ISSUED | 12000162.3  | 1/2/2001   | 60147957.2 | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide<br>Adducts And Their Use In Photorealist Developers   | 9620 |

|         |               |        |             |            |            |            |   |      |
|---------|---------------|--------|-------------|------------|------------|------------|---|------|
| 05914D  | Great Britain | ISSUED | 12000162.3  | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D  | Italy         | ISSUED | 5.02014E+14 | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D  | Japan         | ISSUED | 2004-185355 | 12/28/2000 | 4448389    | 1/29/2010  | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D  | Netherlands   | ISSUED | 12000162.3  | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D  | Portugal      | ISSUED | 12000162.3  | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D  | Spain         | ISSUED | 12000162.3  | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D  | Sweden        | ISSUED | 12000162.3  | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D  | Switzerland   | ISSUED | 12000162.3  | 1/2/2001   | 2441744    | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D  | Taiwan        | ISSUED | 91115474    | 1/2/2001   | 245977     | 12/21/2005 | Containing the Same   | 9620 |
| 05914D  | Turkey        | ISSUED | 12000162.3  | 1/2/2001   | 2013/08382 | 5/1/2013   | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914D2 | Japan         | ISSUED | 2009-135633 | 12/28/2000 | 4691178    | 2/25/2011  | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 05914P  | United States | ISSUED | 10/024893   | 12/18/2001 | 6455234    | 9/24/2002  | Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photorealist Developers | 9620 |
| 5928    | United States | ISSUED | 09/703311   | 11/1/2000  | 6441064    | 8/27/2002  | ACCELERATORS FOR DICYANDIAMIDE IN ONE-COMPONENT EPOXY COMPOSITIONS                              | 9630 |
| 5983    | Belgium       | ISSUED | 1109469.5   | 4/24/2001  | 1149629    | 6/9/2004   | Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for            | 9650 |

|      |               |        |             |           |              |            |   |      |
|------|---------------|--------|-------------|-----------|--------------|------------|---|------|
| 5983 | Brazil        | ISSUED | PI0101552-4 | 4/23/2001 | PI0101552-4  | 4/8/2014   | Lithium Aluminate as the Catalyst Support for Hydrogenation of Aromatic Amines              | 9650 |
| 5983 | China P.R.    | ISSUED | 1117663.6   | 4/28/2001 | ZL01117663.6 | 6/9/2004   | Lithium Aluminate as the Catalyst Support for Hydrogenation of Aromatic Amines              | 9650 |
| 5983 | Germany       | ISSUED | 1109469.5   | 4/24/2001 | 60103695.6   | 6/9/2004   | Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for        | 9650 |
| 5983 | Great Britain | ISSUED | 1109469.5   | 4/24/2001 | 1149629      | 6/9/2004   | Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for        | 9650 |
| 5983 | Italy         | ISSUED | 5.02005E+14 | 4/24/2001 | 1149629      | 6/9/2004   | Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for        | 9650 |
| 5983 | Japan         | ISSUED | 2001-131284 | 4/27/2001 | 3954810      | 5/11/2007  | Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for        | 9650 |
| 5983 | Netherlands   | ISSUED | 1109469.5   | 4/24/2001 | 1149629      | 6/9/2004   | Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for        | 9650 |
| 5983 | Switzerland   | ISSUED | 1109469.5   | 4/24/2001 | 1149629      | 6/9/2004   | Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for        | 9650 |
| 5983 | United States | ISSUED | 09/561071   | 4/28/2000 | 6184416      | 2/6/2001   | Lithium Aluminate as the Catalyst Support for Hydrogenation of Aromatic Amines              | 9650 |
| 6061 | United States | ISSUED | 09/633664   | 8/7/2000  | H002233      | 11/3/2009  | Catalysts which stabilize hydrofluorocarbon blowing agent in polyurethane foam compositions | 9650 |
| 6077 | Brazil        | ISSUED | PI0201089-5 | 4/5/2002  | PI0201089-5  | 6/14/2011  | Acid-Blocked Amine Catalysts for the Production of Polyurethanes                            | 9650 |
| 6077 | China P.R.    | ISSUED | 2105538.6   | 4/11/2002 | ZL02105538.6 | 12/21/2005 | Acid-Blocked Amine Catalysts for the Production of Polyurethanes                            | 9650 |
| 6077 | France        | ISSUED | 2007930.7   | 4/9/2002  | 1249461      | 10/6/2004  | Acid-Blocked Amine Catalysts for the Production of Polyurethanes                            | 9650 |
| 6077 | Germany       | ISSUED | 2007930.7   | 4/9/2002  | 60201456.5   | 10/6/2004  | Acid-Blocked Amine Catalysts for the Production of Polyurethanes                            | 9650 |
| 6077 | Great Britain | ISSUED | 2007930.7   | 4/9/2002  | 1249461      | 10/6/2004  | Acid-Blocked Amine Catalysts for the Production of Polyurethanes                            | 9650 |
| 6077 | Italy         | ISSUED | 5.02005E+14 | 4/9/2002  | 1249461      | 10/6/2004  | Acid-Blocked Amine Catalysts for the Production of Polyurethanes                            | 9650 |

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|--------|---------------|---------|------------------|------------|--------------|-----------|--|------|
| 6077   | Japan         | ISSUED  | 2002-107721      | 4/10/2002  | 3992226      | 8/3/2007  | Acid-Blocked Amine Catalysts for the Production of Polyurethanes   | 9650 |
| 6077   | Korea South   | ISSUED  | 10-2002-0019145  | 4/9/2002   | 479534       | 3/21/2005 | Acid-Blocked Amine Catalysts for the Production of Polyurethanes   | 9650 |
| 6077   | Mexico        | ISSUED  | PA/a/2002/003535 | 4/5/2002   | 228765       | 6/28/2005 | Acid-Blocked Amine Catalysts for the Production of Polyurethanes   | 9650 |
| 6077   | United States | ISSUED  | 09/832502        | 4/11/2001  | 6432864      | 8/13/2002 | Acid-Blocked Amine Catalysts for the Production of Polyurethanes   | 9650 |
| 06077D | United States | ISSUED  | 10/174383        | 6/18/2002  | 6525107      | 2/25/2003 | Acid-Blocked Amine Catalysts for the Production of Polyurethanes   | 9650 |
| 6092   | China P.R.    | ISSUED  | 1137256.7        | 11/1/2001  | ZL01137256.7 | 3/2/2005  | 2-PHENYLMIDAZOLE-PHOSPHORIC ACID SALT AS AN ACCELERATOR FOR ACID ANHYDRIDE CURATIVES IN ONE-COMPONENT EPOXY COMPOSITIONS | 9630 |
| 6092   | Japan         | ISSUED  | 2001-333609      | 10/31/2001 | 3509800      | 1/9/2004  | 2-PHENYLMIDAZOLE-PHOSPHORIC ACID SALT AS AN ACCELERATOR FOR ACID ANHYDRIDE CURATIVES IN ONE-COMPONENT EPOXY COMPOSITIONS | 9630 |
| 6092   | United States | ISSUED  | 09/703443        | 11/1/2000  | 6462164      | 10/8/2002 | 2-PHENYLMIDAZOLE-PHOSPHORIC ACID SALT AS AN ACCELERATOR FOR ACID ANHYDRIDE CURATIVES IN ONE-COMPONENT EPOXY COMPOSITIONS | 9630 |
| 06125P | United States | ISSUED  | 10/062924        | 1/31/2002  | 6800717      | 10/5/2004 | Acid Catalyzed Copolymerization of Water and Epoxy Resin and Uses Thereof  | 9630 |
| 6195   | Brazil        | ISSUED  | PI0203936-2      | 9/26/2002  | PI0203936-2  | 9/18/2012 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | China P.R.    | ISSUED  | 2144091.3        | 9/30/2002  | 2144091.3    | 12/9/2009 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | France        | ISSUED  | 2021478.9        | 9/25/2002  | 1297876      | 3/14/2007 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | Germany       | ISSUED  | 2021478.9        | 9/25/2002  | 60218796.6   | 3/14/2007 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | Great Britain | ISSUED  | 2021478.9        | 9/25/2002  | 1297876      | 3/14/2007 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | Italy         | ISSUED  | 5.02008E+14      | 9/25/2002  | 1297876      | 3/14/2007 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | Japan         | ISSUED  | 2002-285311      | 9/30/2002  | 3978110      | 6/29/2007 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | Korea South   | ISSUED  | 10-2002-0059680  | 10/1/2002  | 481024       | 3/25/2005 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | Mexico        | ISSUED  | PA/a/2002/009609 | 9/30/2002  | 228782       | 6/29/2005 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | Spain         | ISSUED  | 2021478.9        | 9/25/2002  | 1297876      | 3/14/2007 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6195   | United States | ISSUED  | 09/968204        | 10/1/2001  | 6762208      | 7/13/2004 | Alkane Diol Foam Controlling Agents  | 9620 |
| 6245   | Brazil        | PENDING | PI-0300363-9     | 1/27/2003  |              |           | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate   | 9620 |



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|------|-------------------------------|---------|------------------|-----------|------------|-----------|---|------|
| 6245 | China P. R.                   | ISSUED  | 03101996.X       | 1/30/2003 | 03101996.X | 1/7/2009  | Surfactants<br>Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants    | 9620 |
| 6245 | France                        | ISSUED  | 3001722.2        | 1/27/2003 | 1333048    | 5/23/2007 | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6245 | Germany                       | ISSUED  | 3001722.2        | 1/27/2003 | 60313903.5 | 5/23/2007 | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6245 | Great Britain                 | ISSUED  | 3001722.2        | 1/27/2003 | 1333048    | 5/23/2007 | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6245 | Italy                         | ISSUED  | 5.02008E+14      | 1/27/2003 | 1333048    | 5/23/2007 | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6245 | Japan                         | ISSUED  | 2003-19932       | 1/29/2003 | 3940368    | 4/6/2007  | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6245 | Korea South                   | ISSUED  | 10-2003-0005410  | 1/28/2003 | 541790     | 1/2/2006  | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6245 | Mexico                        | ISSUED  | PA/a/2003/000804 | 1/27/2003 | 230459     | 9/8/2005  | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6245 | Spain                         | ISSUED  | 3001722.2        | 1/27/2003 | 1333048    | 5/23/2007 | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6245 | United States                 | ISSUED  | 10/060679        | 1/30/2002 | 6717019    | 4/6/2004  | Glycidyl Ether-Capped Acetylenic Diol Ethoxylate<br>Surfactants                   | 9620 |
| 6291 | China P. R.                   | ISSUED  | 2.0041E+11       | 2/6/2004  | 2.0041E+11 | 1/31/2007 | Hydrogenation of Methyleneedianiline Homologs and<br>Epoxy Resins Cured with Same | 9630 |
| 6291 | European Patent<br>Convention | PENDING | 4002456.4        | 2/4/2004  |            |           | Hydrogenation of Methyleneedianiline Homologs and<br>Epoxy Resins Cured with Same | 9630 |
| 6291 | France                        | PENDING | 4002456.4        | 2/4/2004  |            |           | Hydrogenation of Methyleneedianiline Homologs and<br>Epoxy Resins Cured with Same | 9630 |
| 6291 | Germany                       | PENDING | 4002456.4        | 2/4/2004  |            |           | Hydrogenation of Methyleneedianiline Homologs and<br>Epoxy Resins Cured with Same | 9630 |
| 6291 | Great Britain                 | PENDING | 4002456.4        | 2/4/2004  |            |           | Hydrogenation of Methyleneedianiline Homologs and<br>Epoxy Resins Cured with Same | 9630 |
| 6291 | Italy                         | PENDING | 4002456.4        | 2/4/2004  |            |           | Hydrogenation of Methyleneedianiline Homologs and<br>Epoxy Resins Cured with Same | 9630 |

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|---------|----------------------------|--------|-----------------|-----------|------------|------------|---|------|
| 6291    | Japan                      | ISSUED | 2004-28875      | 2/5/2004  | 3962380    | 5/25/2007  | Hydrogenation of Methyleneedianiline Homologs and Epoxy Resins Cured with Same                            | 9630 |
| 6291    | Korea South                | ISSUED | 10-2004-0007741 | 2/6/2004  | 607977     | 7/26/2006  | Hydrogenation of Methyleneedianiline Homologs and Epoxy Resins Cured with Same                            | 9630 |
| 6291    | United States              | ISSUED | 10/359450       | 2/6/2003  | 6962964    | 11/8/2005  | Hydrogenation of Methyleneedianiline Homologs and Epoxy Resins Cured with Same                            | 9630 |
| 6292    | Taiwan                     | ISSUED | 92121573        | 8/6/2003  | 246637     | 1/1/2006   | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 6292    | United States              | ISSUED | 10/218068       | 8/12/2002 | 6641986    | 11/4/2003  | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292P  | European Patent Convention | ISSUED | 3017569.9       | 8/7/2003  | 1389745    | 1/28/2015  | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292P  | France                     | ISSUED | 3017569.9       | 8/7/2003  | 1389745    | 1/28/2015  | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292P  | Germany                    | ISSUED | 3017569.9       | 8/7/2003  | 60347273.7 | 1/28/2015  | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292P  | Great Britain              | ISSUED | 3017569.9       | 8/7/2003  | 1389745    | 1/28/2015  | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292P  | Italy                      | ISSUED | 5.02015E+14     | 8/7/2003  | 1389745    | 1/28/2015  | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292P  | Japan                      | ISSUED | 2003-292443     | 8/12/2003 | 4041037    | 11/16/2007 | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292P  | Korea South                | ISSUED | 10-2003-0055635 | 8/12/2003 | 630853     | 9/26/2006  | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292P  | Spain                      | ISSUED | 3017569.9       | 8/7/2003  | 2534979    | 1/28/2015  | Acetylenic Diol Surfactant Solutions and Methods of Using Same  | 9620 |
| 06292PD | Korea South                | ISSUED | 10-2006-0023837 | 3/15/2006 | 655816     | 12/4/2006  | Tertiary Amine Alkyl Amide Polyurethane Catalysts Derived from Long Chain Alkyl or Fatty Carboxylic Acids | 9650 |
| 6304    | United States              | ISSUED | 10/336371       | 1/3/2003  | 6762211    | 7/13/2004  | Tertiary Amine Alkyl Amide Catalysts for Improving the Physical Properties of Polyurethane Foams          | 9650 |
| 6305    | United States              | ISSUED | 10/336555       | 1/3/2003  | 6737446    | 5/18/2004  |   | 9650 |

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|--------|---------------|--------|------------------|------------|----------------|------------|--|------|
| 6306   | United States | ISSUED | 10/385890        | 3/10/2003  | 6747069        | 6/8/2004   | Tertiary Alkanolamine Polyurethane Catalysts Derived From Long Chain Alkyl and Fatty Carboxylic Acids  | 9650 |
| 06306P | China P.R.    | ISSUED | 200410008077.X   | 3/10/2004  | 200410008077.X | 4/30/2008  | Tertiary Alkanolamine Polyurethane Catalysts Derived From Long Chain Alkyl and Fatty Carboxylic Acids  | 9650 |
| 06306P | Germany       | ISSUED | 4005140.1        | 3/4/2004   | 6.02004E+11    | 4/23/2008  | Tertiary Alkanolamine Polyurethane Catalysts Derived From Long Chain Alkyl and Fatty Carboxylic Acids  | 9650 |
| 06306P | Italy         | ISSUED | 4005140.1        | 3/4/2004   | 1457507        | 4/23/2008  | Tertiary Alkanolamine Polyurethane Catalysts Derived From Long Chain Alkyl and Fatty Carboxylic Acids  | 9650 |
| 06306P | Japan         | ISSUED | 2004-64992       | 3/9/2004   | 4045249        | 11/22/2007 | Tertiary Alkanolamine Polyurethane Catalysts Derived From Long Chain Alkyl and Fatty Carboxylic Acids  | 9650 |
| 06306P | United States | ISSUED | 10/724886        | 12/2/2003  | 7169823        | 1/30/2007  | Tertiary Alkanolamine Polyurethane Catalysts Derived From Long Chain Alkyl and Fatty Carboxylic Acids  | 9650 |
| 6307   | United States | ISSUED | 10/338184        | 1/6/2003   | 6759447        | 7/6/2004   | Physical Properties of Polyurethane Foams Using Tertiary Aminoalkyl Amide Catalysts  | 9650 |
| 06307P | China P.R.    | ISSUED | 2.0041E+11       | 1/6/2004   | 2.0041E+11     | 7/29/2009  | Improving The Physical Properties of Polyurethane Foams Using Tertiary Aminoalkyl Amide Catalysts Method for Improving the Physical Properties of Polyurethane Foams Using Tertiary Aminoalkyl Amide Catalysts | 9650 |
| 06307P | Japan         | ISSUED | 2003-432219      | 12/26/2003 | 4004464        | 8/31/2007  | Improving The Physical Properties of Polyurethane Foams Using Tertiary Aminoalkyl Amide Catalysts  | 9650 |
| 06307P | Mexico        | ISSUED | PA/a/2003/012058 | 12/19/2003 | 256379         | 4/17/2008  | Improving the Physical Properties of Polyurethane Foams Using Tertiary Amino Alkyl Amide Catalysts   | 9650 |
| 06307P | United States | ISSUED | 10/724884        | 12/2/2003  | 7189765        | 3/13/2007  | Mannich-based Adducts as Water based Epoxy Curing Agents with Fast Cure Capabilities for Green Concrete Application  | 9630 |
| 6330   | France        | ISSUED | 4004402.6        | 2/26/2004  | 1454935        | 5/18/2005  | Mannich-based Adducts as Water based Epoxy Curing Agents with Fast Cure Capabilities for Green Concrete Application  | 9630 |
| 6330   | Germany       | ISSUED | 4004402.6        | 2/26/2004  | 6.02004E+11    | 5/18/2005  | Mannich-based Adducts as Water based Epoxy Curing Agents with Fast Cure Capabilities for Green Concrete Application  | 9630 |
| 6330   | Great Britain | ISSUED | 4004402.6        | 2/26/2004  | 1454935        | 5/18/2005  | Mannich-based Adducts as Water based Epoxy Curing Agents with Fast Cure Capabilities for Green Concrete Application  | 9630 |

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|--------|----------------------------|--------|-------------|------------|-------------|------------|---|------|
| 6330   | Italy                      | ISSUED | 5.02006E+14 | 2/26/2004  | 1454935     | 5/18/2005  | Mannich-based Adducts as Water based Epoxy Curing Agents with Fast Cure Capabilities for Green Concrete Application | 9630 |
| 6330   | United States              | ISSUED | 10/378965   | 3/4/2003   | 6916505     | 7/12/2005  | Mannich Based Adducts as Water Based Epoxy Curing Agents with Fast Cure Capabilities for Green Concrete Application | 9630 |
| 6342   | China P.R.                 | ISSUED | 2.0041E+11  | 1/29/2004  | 2.0041E+11  | 5/5/2010   | Low Acid Organometallic Catalyst for the Production of Flexible, Semi-Flexible and Rigid Polyurethane Foams         | 9650 |
| 6342   | France                     | ISSUED | 4001660.2   | 1/27/2004  | 1443065     | 9/13/2006  | Low Acid Organometallic Catalyst for the Production of Flexible, Semi-Flexible and Rigid Polyurethane Foams         | 9650 |
| 6342   | Germany                    | ISSUED | 4001660.2   | 1/27/2004  | 6.02004E+11 | 9/13/2006  | Low Acid Organometallic Catalyst for the Production of Flexible, Semi-Flexible and Rigid Polyurethane Foams         | 9650 |
| 6342   | Great Britain              | ISSUED | 4001660.2   | 1/27/2004  | 1443065     | 9/13/2006  | Low Acid Organometallic Catalyst for the Production of Flexible, Semi-Flexible and Rigid Polyurethane Foams         | 9650 |
| 6342   | Italy                      | ISSUED | 5.02007E+14 | 1/27/2004  | 1443065     | 9/13/2006  | Low Acid Organometallic Catalyst for the Production of Flexible, Semi-Flexible and Rigid Polyurethane Foams         | 9650 |
| 6342   | United States              | ISSUED | 10/353642   | 1/29/2003  | 6825238     | 11/30/2004 | Low Acid Organometallic Catalyst for the Production of Flexible, Semi-Flexible and Rigid Polyurethane Foams         | 9650 |
| 6361   | United States              | ISSUED | 10/385576   | 3/10/2003  | 6998508     | 2/14/2006  | Tertiary Alkanolamines Containing Surface Active Alkyl Groups   | 9650 |
| 06361P | China P.R.                 | ISSUED | 2.0041E+11  | 3/10/2004  | 2.0041E+11  | 6/6/2007   | Tertiary Alkanolamines Containing Surface Active Alkyl Groups   | 9650 |
| 06361P | Germany                    | ISSUED | 4005139.3   | 3/4/2004   | 6.02004E+11 | 11/19/2008 | Tertiary Alkanolamines Containing Surface Active Alkyl Groups   | 9650 |
| 06361P | Japan                      | ISSUED | 2004-64983  | 3/9/2004   | 4224414     | 11/28/2008 | Tertiary Alkanolamines Containing Surface Active Alkyl Groups   | 9650 |
| 06361P | United States              | ISSUED | 10/731492   | 12/10/2003 | 7026512     | 4/11/2006  | Tertiary Alkanolamines Containing Surface Active Alkyl Groups   | 9650 |
| 6456   | China P.R.                 | ISSUED | 2.0041E+11  | 10/22/2004 | 2.0041E+11  | 1/2/2008   | Catalyst Blends For Producing Low Thermal Desorption Polyurethane Foams   | 9650 |
| 6456   | European Patent Convention | ISSUED | 4025047.4   | 10/21/2004 | 1528072     | 9/13/2006  | Catalyst Blends For Producing Low Thermal Desorption Polyurethane Foams   | 9650 |
| 6456   | France                     | ISSUED | 4025047.4   | 10/21/2004 | 1528072     | 9/13/2006  | Catalyst Blends For Producing Low Thermal Desorption Polyurethane Foams   | 9650 |

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|--------|---------------|--------|------------------|------------|-------------|------------|--|------|
| 6456   | Germany       | ISSUED | 4025047.4        | 10/21/2004 | 6.02004E+11 | 9/13/2006  | Polyurethane Foams<br>Catalyst Blends For Producing low Thermal Desorption<br>Polyurethane Foams | 9650 |
| 6456   | Great Britain | ISSUED | 4025047.4        | 10/21/2004 | 1528072     | 9/13/2006  | Catalyst Blends For Producing low Thermal Desorption<br>Polyurethane Foams                       | 9650 |
| 6456   | Italy         | ISSUED | 5.02007E+14      | 10/21/2004 | 1528072     | 9/13/2006  | Catalyst Blends For Producing low Thermal Desorption<br>Polyurethane Foams                       | 9650 |
| 6456   | Korea South   | ISSUED | 10-2004-0085549  | 10/26/2004 | 613676      | 8/10/2006  | Catalyst Blends For Producing low Thermal Desorption<br>Polyurethane Foams                       | 9650 |
| 6456   | Mexico        | ISSUED | PA/a/2004/010630 | 10/26/2004 | 254010      | 1/30/2008  | Catalyst Blends For Producing low Thermal Desorption<br>Polyurethane Foams                       | 9650 |
| 6456   | United States | ISSUED | 10/695515        | 10/27/2003 | 6858654     | 2/22/2005  | Catalyst Blends For Producing low Thermal Desorption<br>Polyurethane Foams                       | 9650 |
| 06459C | United States | ISSUED | 12/915385        | 10/29/2010 | 9321892     | 4/26/2016  | Blewing Agent Enhancers for Polyurethane Foam<br>Production                                      | 9650 |
| 06459P | China P. R.   | ISSUED | 2.0041E+11       | 9/24/2004  | 2.0041E+11  | 10/24/2007 | Blewing Agent Enhancers for Polyurethane Foam<br>Production                                      | 9650 |
| 06459P | Korea South   | ISSUED | 10-2004-0076225  | 9/23/2004  | 587875      | 6/1/2006   | Blewing Agent Enhancers for Polyurethane Foam<br>Production                                      | 9650 |
| 06459P | United States | ISSUED | 10/700163        | 11/3/2003  | 6921779     | 7/26/2005  | Method Of Preparation Of A Water Based Epoxy Curing<br>Agent                                     | 9630 |
| 6483   | China P. R.   | ISSUED | 2.0041E+11       | 12/20/2004 | 2.0041E+11  | 11/21/2007 | Method Of Preparation Of A Water Based Epoxy Curing<br>Agent                                     | 9630 |
| 6483   | France        | ISSUED | 3029483.9        | 12/19/2003 | 1544230     | 4/13/2011  | Method Of Preparation Of A Water Based Epoxy Curing<br>Agent                                     | 9630 |
| 6483   | Germany       | ISSUED | 3029483.9        | 12/19/2003 | 60336737.2  | 4/13/2011  | Method Of Preparation Of A Water Based Epoxy Curing<br>Agent                                     | 9630 |
| 6483   | Great Britain | ISSUED | 3029483.9        | 12/19/2003 | 1544230     | 4/13/2011  | Method Of Preparation Of A Water Based Epoxy Curing<br>Agent                                     | 9630 |
| 6483   | Italy         | ISSUED | 5.02012E+14      | 12/19/2003 | 1544230     | 4/13/2011  | Method Of Preparation Of A Water Based Epoxy Curing<br>Agent                                     | 9630 |
| 6483   | Korea South   | ISSUED | 10-2004-0108431  | 12/18/2004 | 10-1070716  | 9/29/2011  | Method Of Preparation Of A Water Based Epoxy Curing<br>Agent                                     | 9630 |
| 6483   | Netherlands   | ISSUED | 3029483.9        | 12/19/2003 | 1544230     | 4/13/2011  | Method Of Preparation Of A Water Based Epoxy Curing<br>Agent                                     | 9630 |

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|---------|---------------|--------|-------------|-----------|-------------|------------|--|------|
| 6483    | United States | ISSUED | 11/00/2024  | 12/2/2004 | 7528183     | 5/5/2009   | Agent<br>Method Of Preparation Of A Water Based Epoxy Curing Agent | 9630 |
| 06483C  | United States | ISSUED | 12/405266   | 3/17/2009 | 7615584     | 11/19/2009 | Method of Preparation of a Water Based Epoxy Curing Agent          | 9630 |
| 6513    | Belgium       | ISSUED | 5010749.9   | 5/18/2005 | 1604972     | 8/10/2011  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 6513    | Brazil        | ISSUED | PI0501791-2 | 5/13/2005 | PI0501791-2 | 5/13/2015  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 6513    | Canada        | ISSUED | 2507301     | 5/12/2005 | 2507301     | 4/13/2010  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 6513    | Germany       | ISSUED | 5010749.9   | 5/18/2005 | 6.02005E+11 | 8/10/2011  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 6513    | Netherlands   | ISSUED | 5010749.9   | 5/18/2005 | 1604972     | 8/10/2011  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 6513    | Switzerland   | ISSUED | 5010749.9   | 5/18/2005 | 1604972     | 8/10/2011  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 6513    | United States | ISSUED | 10/848766   | 5/19/2004 | 7038088     | 5/2/2006   | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 06513D  | China P.R.    | ISSUED | 2.0111E+11  | 5/19/2005 | 2.0111E+11  | 4/22/2015  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 06513D  | Japan         | ISSUED | 2009-297696 | 5/13/2005 | 5426362     | 12/6/2013  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 06513D2 | Japan         | ISSUED | 2013-189210 | 5/13/2005 | 5731603     | 4/17/2015  | Hydrogenation of Highly Contaminated Methyleneedianiline           | 9650 |
| 6514    | Belgium       | ISSUED | 5018017.3   | 8/18/2005 | 1630155     | 3/16/2011  | Hydrogenation of Methyleneedianiline                               | 9650 |
| 6514    | Brazil        | ISSUED | PI0503430-2 | 8/18/2005 | PI0503430-2 | 6/2/2015   | Hydrogenation of Methyleneedianiline                               | 9650 |
| 6514    | China P.R.    | ISSUED | 2.0051E+11  | 8/24/2005 | 2.0051E+11  | 8/15/2007  | Hydrogenation of Methyleneedianiline                               | 9650 |
| 6514    | Germany       | ISSUED | 5018017.3   | 8/18/2005 | 6.02005E+11 | 3/16/2011  | Hydrogenation of Methyleneedianiline                               | 9650 |
| 6514    | Japan         | ISSUED | 2005-242167 | 8/24/2005 | 4388000     | 10/9/2009  | Ring Hydrogenation Process of Methyleneedianiline                  | 9650 |
| 6514    | Netherlands   | ISSUED | 5018017.3   | 8/18/2005 | 1630155     | 3/16/2011  | Hydrogenation of Methyleneedianiline                               | 9650 |
| 6514    | Switzerland   | ISSUED | 5018017.3   | 8/18/2005 | 1630155     | 3/16/2011  | Hydrogenation of Methyleneedianiline                               | 9650 |
| 6514    | United States | ISSUED | 10/925105   | 8/24/2004 | 6998507     | 2/14/2006  | Hydrogenation of Methyleneedianiline                               | 9650 |

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|---------|-------------------------------|---------|------------------|-----------|-------------|------------|---|------|
| 06514D  | China P. R.                   | ISSUED  | 2.0061E+11       | 8/2/2006  | 2.0061E+11  | 10/27/2010 | Hydrogenation of Methylenedianiline<br>Fast Demold/Extended Cream Time Polyurethane<br>Formulations | 9650 |
| 06517P  | Brazil                        | ISSUED  | P10503158-3      | 5/27/2005 | P10503158-3 | 8/11/2015  | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | China P. R.                   | ISSUED  | 2.0051E+11       | 5/27/2005 | 2.0051E+11  | 10/24/2007 | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | France                        | ISSUED  | 5011237.4        | 5/24/2005 | 1600465     | 7/16/2014  | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | Germany                       | ISSUED  | 5011237.4        | 5/24/2005 | 6.02005E+11 | 7/16/2014  | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | Great Britain                 | ISSUED  | 5011237.4        | 5/24/2005 | 1600465     | 7/16/2014  | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | Italy                         | ISSUED  | 5.02015E+14      | 5/24/2005 | 1600465     | 7/16/2014  | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | Japan                         | PENDING | 2005-155555      | 5/27/2005 |             |            | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | Korea South                   | ISSUED  | 10-2005-0045036  | 5/27/2005 | 695194      | 3/8/2007   | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | Mexico                        | ISSUED  | PA/a/2005/005620 | 5/25/2005 | 309367      | 5/7/2013   | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517P  | United States                 | ISSUED  | 11/131179        | 5/18/2005 | 8258198     | 9/4/2012   | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517PC | United States                 | ISSUED  | 13/547756        | 7/12/2012 | 8618014     | 12/31/2013 | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 06517PD | European Patent<br>Convention | PENDING | 14173716.3       | 5/24/2005 |             |            | Fast Demold/Extended Cream Time Polyurethane<br>Formulations  | 9650 |
| 6611    | Brazil                        | PENDING | P10504298-4      | 10/3/2005 |             |            | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and<br>Sulfoxides: New Surface Active Agents           | 9620 |
| 6611    | Canada                        | ISSUED  | 2522156          | 10/3/2005 | 2522156     | 9/18/2012  | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and<br>Sulfoxides: New Surface Active Agents           | 9620 |
| 6611    | China P. R.                   | ISSUED  | 2.0051E+11       | 10/8/2005 | 2.0051E+11  | 8/21/2013  | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and<br>Sulfoxides: New Surface Active Agents           | 9620 |
| 6611    | France                        | ISSUED  | 5021711.6        | 10/5/2005 | 1657288     | 6/30/2010  | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and<br>Sulfoxides: New Surface Active Agents           | 9620 |

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|--------|---------------|--------|------------------|------------|-------------|-----------|--|------|
| 6611   | Germany       | ISSUED | 5021711.6        | 10/5/2005  | 6.02005E+11 | 6/30/2010 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 6611   | Great Britain | ISSUED | 5021711.6        | 10/5/2005  | 1657288     | 6/30/2010 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 6611   | Italy         | ISSUED | 5.02011E+14      | 10/5/2005  | 1657288     | 6/30/2010 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 6611   | Japan         | ISSUED | 2005-296181      | 10/11/2005 | 4351204     | 7/31/2009 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 6611   | Korea South   | ISSUED | 10-2005-0093896  | 10/6/2005  | 699294      | 3/19/2007 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 6611   | Mexico        | ISSUED | PA/a/2005/010737 | 10/5/2005  | 259476      | 8/11/2008 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 6611   | Spain         | ISSUED | 5021711.6        | 10/5/2005  | 1657288     | 6/30/2010 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 6611   | United States | ISSUED | 10/961763        | 10/8/2004  | 7341985     | 3/11/2008 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 06611D | Belgium       | ISSUED | 10167762.3       | 10/5/2005  | 2246407     | 4/16/2014 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 06611D | Finland       | ISSUED | 10167762.3       | 10/5/2005  | 2246407     | 4/16/2014 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 06611D | France        | ISSUED | 10167762.3       | 10/5/2005  | 2246407     | 4/16/2014 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 06611D | Germany       | ISSUED | 10167762.3       | 10/5/2005  | 6.02005E+11 | 4/16/2014 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 06611D | Great Britain | ISSUED | 10167762.3       | 10/5/2005  | 2246407     | 4/16/2014 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 06611D | Italy         | ISSUED | 5.02015E+14      | 10/5/2005  | 2246407     | 4/16/2014 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |
| 06611D | Netherlands   | ISSUED | 10167762.3       | 10/5/2005  | 2246407     | 4/16/2014 | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents | 9620 |



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| 06611D | Poland        | ISSUED | 10167762.3  | 10/5/2005 | 2246407     | 4/16/2014  | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents   | 9620 |
| 06611D | Spain         | ISSUED | 10167762.3  | 10/5/2005 | 2246407     | 4/16/2014  | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents   | 9620 |
| 06611D | Sweden        | ISSUED | 10167762.3  | 10/5/2005 | 2246407     | 4/16/2014  | 2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfonides: New Surface Active Agents   | 9620 |
| 6630   | China P.R.    | ISSUED | 2.0061E+11  | 3/17/2006 | 2.0061E+11  | 2/6/2013   | Blowing Catalyst Compositions Containing Hydroxyl and Surface Active Groups for the Production of Polyurethane Foams             | 9650 |
| 6630   | Germany       | ISSUED | 6005520.9   | 3/17/2006 | 6.02006E+11 | 5/13/2009  | Blowing Catalyst Compositions Containing Hydroxyl and Surface Active Groups for the Production of Polyurethane Foams             | 9650 |
| 6630   | Italy         | ISSUED | 5.0201E+14  | 3/17/2006 | 1702913     | 5/13/2009  | Blowing Catalyst Compositions Containing Hydroxyl and Surface Active Groups for the Production of Polyurethane Foams             | 9650 |
| 6630   | Japan         | ISSUED | 2006-74621  | 3/17/2006 | 4495100     | 4/16/2010  | Blowing Catalyst Compositions Containing Hydroxyl and Surface Active Groups for the Production of Polyurethane Foams             | 9650 |
| 6630   | United States | ISSUED | 11/083452   | 3/18/2005 | 7495131     | 2/24/2009  | Blowing Catalyst Compositions Containing Hydroxyl and Surface Active Groups for the Production of Polyurethane Foams             | 9650 |
| 06630D | China P.R.    | ISSUED | 2.01211E+11 | 3/17/2006 | 2.01211E+11 | 10/28/2015 | Blowing Catalyst Compositions Containing Hydroxyl and Surface Active Groups for the Production of Polyurethane Foams             | 9650 |
| 6635   | China P.R.    | ISSUED | 2.0061E+11  | 4/19/2006 | 2.0061E+11  | 6/16/2010  | High Ethylenediamine Backbones   | 9650 |
| 6635   | France        | ISSUED | 6008012.4   | 4/18/2006 | 1714989     | 9/3/2008   | Compositions Containing Primary Hydroxyl Groups and High Ethylenediamine Backbones   | 9650 |
| 6635   | Germany       | ISSUED | 6008012.4   | 4/18/2006 | 6.02006E+11 | 9/3/2008   | Polyurethane Foams Made with Blowing Catalyst Compositions Containing Primary Hydroxyl Groups and High Ethylenediamine Backbones | 9650 |

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|--------|---------------|---------|------------------|-----------|-------------|------------|--|------|
| 6635   | Great Britain | ISSUED  | 6008012.4        | 4/18/2006 | 1714989     | 9/3/2008   | Polyurethane Foams Made with Blowing Catalyst Compositions Containing Primary Hydroxyl Groups and High Ethylenediamine Backbones | 9650 |
| 6635   | Italy         | ISSUED  | 5.02009E+14      | 4/18/2006 | 1714989     | 9/3/2008   | Compositions Containing Primary Hydroxyl Groups and High Ethylenediamine Backbones   | 9650 |
| 6635   | Japan         | ISSUED  | 2006-114371      | 4/18/2006 | 4291336     | 4/10/2009  | Polyurethane Foams Made with Blowing Catalyst Compositions Containing Primary Hydroxyl Groups and High Ethylenediamine Backbones | 9650 |
| 6635   | Korea South   | ISSUED  | 10-2006-0034121  | 4/14/2006 | 699299      | 3/19/2007  | Polyurethane Foams Made with Blowing Catalyst Compositions Containing Primary Hydroxyl Groups and High Ethylenediamine Backbones | 9650 |
| 6635   | Mexico        | ISSUED  | PA/a/2006/004207 | 4/12/2006 | 260840      | 9/25/2008  | Compositions Containing Primary Hydroxyl Groups and High Ethylenediamine Backbones   | 9650 |
| 06635C | United States | ISSUED  | 12/788667        | 5/27/2010 | 9309346     | 4/12/2016  | Polyurethane Foams Made with Blowing Catalyst Compositions Containing Primary Hydroxyl Groups and High Ethylenediamine Backbones | 9650 |
| 6706   | Belgium       | ISSUED  | 6019510.4        | 9/18/2006 | 1767520     | 6/8/2011   | Hydrogenation of Aromatic Amines to Alicyclic Amines Using A Lithium Aluminate-Based Catalyst                                    | 9650 |
| 6706   | Brazil        | PENDING | PI0603815-8      | 9/18/2006 |             |            | Hydrogenation of Aromatic Amines to Alicyclic Amines Using A Lithium Aluminate-Based Catalyst                                    | 9650 |
| 6706   | China P.R.    | ISSUED  | 2.0061E+11       | 9/22/2006 | 2.0061E+11  | 11/14/2012 | Hydrogenation of Aromatic Amines to Alicyclic Amines Using a Ruthenium Catalyst Supported on Lithium Aluminate                   | 9650 |
| 6706   | Germany       | ISSUED  | 6019510.4        | 9/18/2006 | 6.02006E+11 | 6/8/2011   | Hydrogenation of Aromatic Amines to Alicyclic Amines Using A Lithium Aluminate-Based Catalyst                                    | 9650 |
| 6706   | Japan         | ISSUED  | 2006-256015      | 9/21/2006 | 4874749     | 12/2/2011  | Hydrogenation of Aromatic Amines to Alicyclic Amines Using a Ruthenium Catalyst Supported on Lithium Aluminate                   | 9650 |
| 6706   | Netherlands   | ISSUED  | 6019510.4        | 9/18/2006 | 1767520     | 6/8/2011   |  | 9650 |

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|--------|----------------------------|---------|------------------|------------|------------|------------|---|------|
| 6706   | Switzerland                | ISSUED  | 6019510.4        | 9/18/2006  | 1767520    | 6/8/2011   | Hydrogenation of Aromatic Amines to Alicyclic Amines Using a Ruthenium Catalyst Supported on Lithium Aluminate    | 9650 |
| 6706   | United States              | ISSUED  | 11/233439        | 9/22/2005  | 7465833    | 12/16/2008 | Hydrogenation of Aromatic Amines to Alicyclic Amines Using A Lithium Aluminate-Based Catalyst                     | 9650 |
| 6713   | Brazil                     | PENDING | PI0603918-9      | 9/21/2006  |            |            | Silanol-Functionalized Compounds for the Preparation of Polyurethane Foams  | 9650 |
| 6713   | China P. R.                | ISSUED  | 2.0061E+11       | 9/27/2006  | 2.0061E+11 | 11/16/2011 | Silanol-Functionalized Compounds for the Preparation of Polyurethane Foams  | 9650 |
| 6713   | European Patent Convention | PENDING | 6020167          | 9/26/2006  |            |            | Silanol-Functionalized Compounds for the Preparation of Polyurethane Foams  | 9650 |
| 6713   | Japan                      | PENDING | 2006-260622      | 9/26/2006  |            |            | Silanol-Functionalized Compounds for the Preparation of Polyurethane Foams  | 9650 |
| 6713   | Korea South                | ISSUED  | 10-2006-0092913  | 9/25/2006  | 796478     | 1/15/2008  | Silanol-Functionalized Compounds for the Preparation of Polyurethane Foams  | 9650 |
| 6713   | Mexico                     | ISSUED  | PA/a/2006/010980 | 9/25/2006  | 306694     | 1/14/2013  | Silanol-Functionalized Compounds for the Preparation of Polyurethane Foams  | 9650 |
| 6713   | United States              | PENDING | 11/236380        | 9/27/2005  |            |            | Silanol-Functionalized Compounds for the Preparation of Polyurethane Foams  | 9650 |
| 06713D | Japan                      | ISSUED  | 2010-229033      | 9/26/2006  | 5390497    | 10/18/2013 | Silanol-Functionalized Compounds for the Preparation of Polyurethane Foams  | 9650 |
| 6765   | China P. R.                | ISSUED  | 2.0071E+11       | 4/30/2007  | 2.0071E+11 | 10/5/2011  | New Trimer Catalysts with Improved Processability and Surface Cure  | 9650 |
| 6765   | European Patent Convention | PENDING | 7008686.3        | 4/27/2007  |            |            | Trimer Catalysts with Improved Processability and Surface Cure  | 9650 |
| 6765   | United States              | ISSUED  | 11/418037        | 5/4/2006   | 8580864    | 11/12/2013 | Trimer Catalysts with Improved Processability and Surface Cure  | 9650 |
| 06765D | United States              | PENDING | 14/060026        | 10/22/2013 |            |            | Aromatic Diacid Ester Diols and Substituted Carbamates Thereof for Minimizing Deterioration of Polyurethane Foams | 9650 |
| 6775   | Brazil                     | PENDING | PI0700651-9      | 3/8/2007   |            |            |   | 9650 |

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| 6775   | China P.R.                 | ISSUED  | 200710085758.X   | 3/14/2007 | 200710085758.X | 1/2/2013   | Aromatic Diacid Ester Diols and Substituted Carbamates Thereof for Minimizing Deterioration of Polyurethane Foams | 9650 |
| 6775   | European Patent Convention | PENDING | 7005183.4        | 3/13/2007 |                |            | Carbamates Thereof for Minimizing Deterioration of Polyurethane Foams   | 9650 |
| 6775   | Japan                      | ISSUED  | 2007-63564       | 3/13/2007 | 4603003        | 10/8/2010  | Carbamates Thereof for Minimizing Deterioration of Polyurethane Foams   | 9650 |
| 6775   | Korea South                | ISSUED  | 10-2007-0024514  | 3/13/2007 | 885712         | 2/19/2009  | Carbamates Thereof for Minimizing Deterioration of Polyurethane Foams   | 9650 |
| 6775   | Mexico                     | ISSUED  | MX/a/2007/002973 | 3/12/2007 | 278062         | 8/12/2010  | Carbamates Thereof for Minimizing Deterioration of Polyurethane Foams   | 9650 |
| 6775   | United States              | ISSUED  | 11/374742        | 3/14/2006 | 7666919        | 2/23/2010  | Carbamates Thereof for Minimizing Deterioration of Polyurethane Foams   | 9650 |
| 06775P | United States              | ISSUED  | 11/763467        | 6/15/2007 | 7615580        | 11/10/2009 | Ester Alcohols and Substituted Carbamates Thereof for Minimizing Deterioration of Polyurethane Foams              | 9650 |
| 6776   | China P.R.                 | ISSUED  | 2.0071E+11       | 4/30/2007 | 2.0071E+11     | 5/28/2014  | New Trimer Catalyst Additives for Improving Foam Processability   | 9650 |
| 6776   | European Patent Convention | PENDING | 7008687.1        | 4/27/2007 |                |            | New Trimer Catalyst Additives for Improving Foam Processability   | 9650 |
| 6776   | United States              | ISSUED  | 11/418288        | 5/4/2006  | 8552077        | 10/8/2013  | Trimer Catalyst Additives for Improving Foam Processability   | 9650 |
| 06776D | China P.R.                 | PENDING | 2.0141E+11       | 4/30/2007 |                |            | New Trimer Catalyst Additives for Improving Foam Processability   | 9650 |
| 06776D | United States              | PENDING | 14/021083        | 9/9/2013  |                |            | Trimer Catalyst Additives for Improving Foam Processability   | 9650 |
| 6833   | China P.R.                 | ISSUED  | 2.0071E+11       | 7/13/2007 | 2.0071E+11     | 10/10/2012 | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes                        | 9650 |

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|---------|----------------------------|---------|-----------------|-----------|-------------|-----------|--|------|
| 6833    | European Patent Convention | ISSUED  | 7013630.4       | 7/11/2007 | 1878492     | 2/3/2010  | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 6833    | France                     | ISSUED  | 7013630.4       | 7/11/2007 | 1878492     | 2/3/2010  | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 6833    | Germany                    | ISSUED  | 7013630.4       | 7/11/2007 | 6.02007E+11 | 2/3/2010  | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 6833    | Italy                      | ISSUED  | 5.02011E+14     | 7/11/2007 | 1978492     | 2/3/2010  | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 6833    | Japan                      | ISSUED  | 2007-183057     | 7/12/2007 | 4718521     | 4/8/2011  | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 6833    | Korea South                | ISSUED  | 10-2007-0069417 | 7/11/2007 | 894661      | 4/16/2009 | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 6833    | United States              | ISSUED  | 11/485724       | 7/13/2006 | 8143321     | 3/27/2012 | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 06833D  | France                     | ISSUED  | 8012677.4       | 7/11/2007 | 1977825     | 3/3/2010  | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 06833D  | Germany                    | ISSUED  | 8012677.4       | 7/11/2007 | 6.02007E+11 | 3/3/2010  | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 06833D  | Italy                      | ISSUED  | 5.02011E+14     | 7/11/2007 | 1977825     | 3/3/2010  | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 06833D  | United States              | PENDING | 13/401971       | 2/22/2012 |             |           | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 06833D2 | France                     | ISSUED  | 8012678.2       | 7/11/2007 | 1977826     | 5/30/2012 | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 06833D2 | Germany                    | ISSUED  | 8012678.2       | 7/11/2007 | 6.02007E+11 | 5/30/2012 | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 06833D2 | Great Britain              | ISSUED  | 8012678.2       | 7/11/2007 | 1977826     | 5/30/2012 | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 06833D2 | Italy                      | ISSUED  | 5.02013E+14     | 7/11/2007 | 1977826     | 5/30/2012 | N,N,N'-Trimethyl-Bis-(Aminoethyl) Ether and its Derivatives as Catalysts for Polyurethanes | 9650 |
| 6858    | Brazil                     | PENDING | PI0702265-4     | 5/3/2007  |             |           | New Trimerization Catalysts From Sterically Hindered                                       | 9650 |

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|---------|----------------|---------|------------------|-----------|-------------|-----------|---|------|
| 6858    | China P. R.    | ISSUED  | 2.0071E+11       | 5/8/2007  | 2.0071E+11  | 2/6/2013  | Salts<br>New Trimerization Catalysts From Sterically Hindered Salts | 9650 |
| 6858    | Czech Republic | ISSUED  | 7008702.8        | 4/27/2007 | 1852448     | 8/31/2011 | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6858    | France         | ISSUED  | 7008702.8        | 4/27/2007 | 1852448     | 8/31/2011 | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6858    | Germany        | ISSUED  | 7008702.8        | 4/27/2007 | 6.02007E+11 | 8/31/2011 | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6858    | Great Britain  | ISSUED  | 7008702.8        | 4/27/2007 | 1852448     | 8/31/2011 | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6858    | Italy          | ISSUED  | 5.02012E+14      | 4/27/2007 | 1852448     | 8/31/2011 | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6858    | Japan          | ISSUED  | 2007-120630      | 5/1/2007  | 4898541     | 1/6/2012  | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6858    | Korea South    | ISSUED  | 10-2007-0043581  | 5/4/2007  | 909643      | 7/21/2009 | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6858    | Mexico         | ISSUED  | MX/a/2007/005295 | 5/2/2007  | 300021      | 6/7/2012  | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6858    | United States  | ISSUED  | 11/418287        | 5/4/2006  | 8530534     | 9/10/2013 | Trimerization Catalysts From Sterically Hindered Salts              | 9650 |
| 06858D  | Japan          | ISSUED  | 2010-226866      | 10/6/2010 | 5722585     | 4/3/2015  | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 06858D  | United States  | PENDING | 14/012155        | 8/28/2013 |             |           | Trimerization Catalysts From Sterically Hindered Salts              | 9650 |
| 06858D2 | Japan          | PENDING | 2014-242975      | 10/6/2010 |             |           | New Trimerization Catalysts From Sterically Hindered Salts          | 9650 |
| 6868    | China P. R.    | ISSUED  | 2.0081E+11       | 2/5/2008  | 2.0081E+11  | 5/4/2011  | Alkylated Polyalkyleneamines and Uses Thereof                       | 9630 |
| 6868    | France         | ISSUED  | 8002189.2        | 2/6/2008  | 1956034     | 9/30/2009 | Alkylated Polyalkyleneamines and Uses Thereof                       | 9630 |
| 6868    | Germany        | ISSUED  | 8002189.2        | 2/6/2008  | 6.02008E+11 | 9/30/2009 | Alkylated Polyalkyleneamines and Uses Thereof                       | 9630 |
| 6868    | Great Britain  | ISSUED  | 8002189.2        | 2/6/2008  | 1956034     | 9/30/2009 | Alkylated Polyalkyleneamines and Uses Thereof                       | 9630 |
| 6868    | India          | ISSUED  | 322/CHE/2008     | 2/7/2008  | 253663      | 8/9/2012  | A Novel Curing Composition  | 9630 |
| 6868    | Italy          | ISSUED  | 5.0201E+14       | 2/6/2008  | 1956034     | 9/30/2009 | Alkylated Polyalkyleneamines and Uses Thereof                       | 9630 |
| 6868    | Korea South    | ISSUED  | 10-2008-0011763  | 2/5/2008  | 939287      | 1/21/2010 | Alkylated Polyalkyleneamines and Uses Thereof                       | 9630 |
| 6868    | United States  | ISSUED  | 11/672298        | 2/7/2007  | 8143331     | 3/27/2012 | Alkylated Polyalkyleneamines and Uses Thereof                       | 9630 |

|            |                            |          |                |           |                |   |      |
|------------|----------------------------|----------|----------------|-----------|----------------|---|------|
| 06868D     | India                      | PENDING  | 2804/CHE/2012  | 2/7/2008  |                | Alkylated Polyalkyleneamines and Uses Thereof                 | 9630 |
| 6897       | China P.R.                 | ISSUED   | 2.0071E+11     | 7/13/2007 | 2.0071E+11     | Stabilized Carbanions as Trimerization Catalysts              | 9650 |
| 6897       | Germany                    | ISSUED   | 7013629.6      | 7/11/2007 | 6.02007E+11    | Stabilized Carbanions as Trimerization Catalysts              | 9650 |
| 6897       | United States              | ISSUED   | 11/485725      | 7/13/2006 | 8445555        | Stabilized Carbanions as Trimerization Catalysts              | 9650 |
| 06925Z2P   | Brazil                     | PENDING  | PI10710562-2   | 5/11/2007 |                | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2P   | China P.R.                 | ISSUED   | 2.0078E+11     | 5/11/2007 | 2.0078E+11     | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2P   | European Patent Convention | PENDING  | 7794820.6      | 5/11/2007 |                | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2P   | United States              | PENDING  | 11/747261      | 5/11/2007 |                | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2PC  | United States              | PENDING  | 15/046848      | 2/18/2016 |                | PERSONAL CARE COMPOSITIONS CONTAINING FUNCTIONALIZED POLYMERS | 9620 |
| 06925Z2PD  | China P.R.                 | PENDING  | 2.0131E+11     | 5/11/2007 |                | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2PD  | European Patent Convention | PENDING  | 10189923.5     | 5/11/2007 |                | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2PD  | Japan                      | ISSUED   | 2013-078355    | 5/11/2007 | 5775111        | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2PD2 | European Patent Convention | PENDING  | 11178616.6     | 5/11/2007 |                | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2PD2 | Japan                      | PENDING  | 2015-127639    | 5/11/2007 |                | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06925Z2PD3 | European Patent Convention | DOCKETED |                |           |                | Personal Care Compositions Containing Functionalized Polymers | 9620 |
| 06928P     | Brazil                     | PENDING  | PI0702764-8    | 6/5/2007  |                | Polyamide Curing Agent Compositions                           | 9630 |
| 06928P     | China P.R.                 | ISSUED   | 200710110252.X | 6/8/2007  | 200710110252.X | Polyamide Curing Agent Compositions                           | 9630 |
| 06928P     | France                     | ISSUED   | 7010911.1      | 6/1/2007  | 1865013        | Polyamide Curing Agent Compositions                           | 9630 |
| 06928P     | Germany                    | ISSUED   | 7010911.1      | 6/1/2007  | 6.02007E+11    | Polyamide Curing Agent Compositions                           | 9630 |
| 06928P     | Great Britain              | ISSUED   | 7010911.1      | 6/1/2007  | 1865013        | Polyamide Curing Agent Compositions                           | 9630 |

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| 06928P  | India         | ISSUED  | 1203/CHE/2007    | 6/8/2007   | 259160      | 2/27/2014  | Polyamide Curing Agent Compositions   | 9630 |
| 06928P  | Italy         | ISSUED  | 7010911.1        | 6/1/2007   | 1865013     | 12/30/2015 | Polyamide Curing Agent Compositions   | 9630 |
| 06928P  | Japan         | PENDING | 2007-153026      | 6/8/2007   |             |            | Polyamide Curing Agent Compositions   | 9630 |
| 06928P  | Korea South   | ISSUED  | 10-2007-0056008  | 6/8/2007   | 894126      | 4/13/2009  | Polyamide Curing Agent Compositions   | 9630 |
| 06928P  | United States | ISSUED  | 11/672994        | 2/9/2007   | 8293863     | 10/23/2012 | Polyamide Curative from Substituted Amine and Dimer Fatty Acid or Ester                                 | 9630 |
| 06928P2 | United States | ISSUED  | 12/052858        | 3/21/2008  | 7655736     | 2/2/2010   | Polyamide Curative from Substituted Amine Mixture and Dimer Fatty Acid or Ester                         | 9630 |
| 06928PD | Japan         | ISSUED  | 2011-167320      | 6/8/2007   | 5711070     | 3/13/2015  | Polyamide Curing Agent Compositions   | 9630 |
| 6951    | United States | ISSUED  | 08/896685        | 7/18/1997  | 6169064     | 1/2/2001   | Amine Ether Acid Salt Surfactant Composition  | PIXX |
| 06952P  | United States | ISSUED  | 09/173347        | 10/15/1998 | 5972875     | 10/26/1999 | Low Foaming Amine Oxide Surfactant Concentrate and Method of Manufacture                                | PIXX |
| 06953P  | United States | ISSUED  | 09/294267        | 4/19/1999  | 6191099     | 2/20/2001  | Method for Cleaning Hydrocarbon-Containing Soils From Surfaces  | PIXX |
| 06953P2 | United States | ISSUED  | 09/023775        | 2/13/1998  | 6080713     | 6/27/2000  | Method for Cleaning Hydrocarbon-Containing Greases and Oils From Fabric in Laundry Washing Applications | PIXX |
| 06953P3 | United States | ISSUED  | 09/324785        | 6/4/1999   | 6146427     | 11/14/2000 | Method for Cleaning Hydrocarbon-Containing Greases and Oils From Fabric in Laundry Washing Applications | PIXX |
| 6962    | United States | ISSUED  | 10/338442        | 1/8/2003   | 6964940     | 11/15/2005 | Method of Preparing Quaternized Amideamine Surfactants  | PIXX |
| 6964    | Mexico        | ISSUED  | MX/a/2007/000581 | 1/15/2007  | 271424      | 10/30/2009 | Asphalt-Based Coating Compositions and Salt Surfactants   | PIXX |
| 6964    | United States | ISSUED  | 11/336023        | 1/20/2006  | 7238230     | 7/3/2007   | Asphalt-Based Coating Compositions and Salt Surfactants   | PIXX |
| 6966    | United States | ISSUED  | 08/805495        | 2/26/1997  | 5730791     | 3/24/1998  | Asphalt Base Coating Composition with Novel Hindered Acid/Amine Salt Surfactant                         | PIXX |
| 6973    | China P.R.    | ISSUED  | 2.0071E+11       | 6/12/2007  | 2.0071E+11  | 9/29/2010  | Catalyst Compositions for Improving Polyurethane Foam Performance                                       | 9650 |
| 6973    | France        | ISSUED  | 7011056.4        | 6/5/2007   | 1867669     | 11/26/2008 | Catalyst Compositions for Improving Polyurethane Foam Performance                                       | 9650 |
| 6973    | Germany       | ISSUED  | 7011056.4        | 6/5/2007   | 6.02007E+11 | 11/26/2008 | Catalyst Compositions for Improving Polyurethane Foam Performance                                       | 9650 |



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|--------|---------------|---------|-----------------|------------|-------------|------------|--|------|
| 6973   | Great Britain | ISSUED  | 7011056.4       | 6/5/2007   | 1867669     | 11/26/2008 | Catalyst Compositions for Improving Polyurethane Foam Performance                                    | 9650 |
| 6973   | Italy         | ISSUED  | 5.0201E+14      | 6/5/2007   | 1867669     | 11/26/2008 | Catalyst Compositions for Improving Polyurethane Foam Performance                                    | 9650 |
| 6973   | Japan         | ISSUED  | 2007-155556     | 6/12/2007  | 4891157     | 12/22/2011 | Catalyst Compositions for Improving Polyurethane Foam Performance                                    | 9650 |
| 6973   | Korea South   | ISSUED  | 10-2007-0057170 | 6/12/2007  | 848842      | 7/22/2008  | Catalyst Compositions for Improving Polyurethane Foam Performance                                    | 9650 |
| 6973   | United States | PENDING | 11/451176       | 6/12/2006  |             |            | Catalyst Compositions for Improving Polyurethane Foam Performance                                    | 9650 |
| 6983   | Brazil        | PENDING | PI0705702.4     | 6/29/2007  |             |            | Curing Agent for Epoxy Resin and Coating Composition   | 9630 |
| 6983   | China P. R.   | ISSUED  | 2.0071E+11      | 6/29/2007  | 2.0071E+11  | 5/18/2011  | Curing Agent for Epoxy Resin and Coating Composition   | 9630 |
| 6983   | France        | ISSUED  | 7012205.6       | 6/21/2007  | 1873181     | 8/1/2012   | Curing Agent for Epoxy Resin and Coating Composition   | 9630 |
| 6983   | Germany       | ISSUED  | 7012205.6       | 6/21/2007  | 6.02007E+11 | 8/1/2012   | Curing Agent for Epoxy Resin and Coating Composition   | 9630 |
| 6983   | Great Britain | ISSUED  | 7012205.6       | 6/21/2007  | 1873181     | 8/1/2012   | Curing Agent for Epoxy Resin and Coating Composition   | 9630 |
| 6983   | Italy         | ISSUED  | 5.02013E+14     | 6/21/2007  | 1873181     | 8/1/2012   | Curing Agent for Epoxy Resin and Coating Composition   | 9630 |
| 6983   | Japan         | ISSUED  | 2006-179544     | 6/29/2006  | 5279176     | 5/31/2013  | Curing Agent for Epoxy Resin and Coating Composition   | 9630 |
| 6983   | Korea South   | ISSUED  | 10-2007-0063962 | 6/27/2007  | 913562      | 8/17/2009  | Curing Agent for Epoxy Resin and Coating Composition Polyoxaalkylene Polyamide-Glycidyl Ether Adduct | 9630 |
| 6983   | United States | ISSUED  | 11/811800       | 6/12/2007  | 8178598     | 5/15/2012  | Epoxy Resin Curing Agent   | 9630 |
| 6985   | China P. R.   | ISSUED  | 2.0071E+11      | 10/22/2007 | 2.0071E+11  | 1/23/2013  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 6985   | France        | ISSUED  | 7020219.7       | 10/16/2007 | 1914257     | 12/8/2010  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 6985   | Germany       | ISSUED  | 7020219.7       | 10/16/2007 | 6.02007E+11 | 12/8/2010  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 6985   | Great Britain | ISSUED  | 7020219.7       | 10/16/2007 | 1914257     | 12/8/2010  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 6985   | India         | ISSUED  | 2366/CHE/2007   | 10/18/2007 | 259400      | 3/11/2014  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 6985   | Italy         | ISSUED  | 5.02012E+14     | 10/16/2007 | 1914257     | 12/8/2010  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 6985   | Japan         | ISSUED  | 2007-268130     | 10/15/2007 | 5367971     | 9/20/2013  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 6985   | Korea South   | ISSUED  | 10-2007-0105801 | 10/19/2007 | 940292      | 1/27/2010  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 6985   | United States | ISSUED  | 11/584388       | 10/20/2006 | 7666954     | 2/23/2010  | Epoxy Resin Amine Curing Agent of N,N'-Dimethyl Secondary Diamine Polymer                            | 9650 |
| 06985D | China P. R.   | ISSUED  | 2.01211E+11     | 10/22/2007 | 2.01211E+11 | 10/28/2015 | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 06985D | France        | ISSUED  | 8012780.6       | 10/16/2007 | 1978050     | 10/3/2012  | Curing Agent for Low Temperature Cure Applications   | 9650 |

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|--------|-------------------------------|----------|-----------------|------------|----------------|------------|--|------|
| 06985D | Germany                       | ISSUED   | 8012780.6       | 10/16/2007 | 6.02007E+11    | 10/3/2012  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 06985D | Great Britain                 | ISSUED   | 8012780.6       | 10/16/2007 | 1978050        | 10/3/2012  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 06985D | India                         | PENDING  | 560/CHE/2012    | 10/20/2006 |                |            | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 06985D | Italy                         | ISSUED   | 5.02014E+14     | 10/16/2007 | 1978050        | 10/3/2012  | Curing Agent for Low Temperature Cure Applications   | 9650 |
| 06985D | Japan                         | DOCKETED |                 |            |                |            |  |      |
| 06985D | United States                 | ISSUED   | 12/689472       | 1/19/2010  | 8536284        | 9/17/2013  | Curing Agent for Low Temperature Cure Applications<br>N,N'-Dimethyl Secondary Diamine Polymer as Epoxy<br>Resin Curing Agent | 9650 |
| 6990   | China P.R.                    | ISSUED   | 2.0071E+11      | 10/26/2007 | 2.0071E+11     | 5/16/2012  | Powdered Acetylenic Surfactants and Compositions<br>Containing Them  | 9620 |
| 6990   | European Patent<br>Convention | PENDING  | 7020835         | 10/24/2007 |                |            | Powdered Acetylenic Surfactants and Compositions<br>Containing Them  | 9620 |
| 6990   | Japan                         | PENDING  | 2007-274849     | 10/23/2007 |                |            | Powdered Acetylenic Surfactants and Compositions<br>Containing Them  | 9620 |
| 6990   | Korea South                   | ISSUED   | 10-2007-0108303 | 10/26/2007 | 926053         | 11/3/2009  | Powdered Acetylenic Surfactants and Compositions<br>Containing Them  | 9620 |
| 6990   | United States                 | ISSUED   | 11/586910       | 10/26/2006 | 8529694        | 9/10/2013  | Powdered Acetylenic Surfactants and Compositions<br>Containing Them  | 9620 |
| 06990D | Japan                         | ISSUED   | 2011-248544     | 10/23/2007 | 5632351        | 10/17/2014 | Powdered Acetylenic Surfactants and Compositions<br>Containing Them  | 9620 |
| 6991   | China P.R.                    | ISSUED   | 2.0071E+11      | 10/17/2007 | 2.0071E+11     | 3/6/2013   | Crosslinkers for Improving Stability of Polyurethane<br>Foams  | 9650 |
| 6991   | European Patent<br>Convention | PENDING  | 7019860.1       | 10/10/2007 |                |            | Crosslinkers for Improving Stability of Polyurethane<br>Foams  | 9650 |
| 6991   | United States                 | ISSUED   | 11/582178       | 10/17/2006 | 8552078        | 10/8/2013  | Crosslinkers for Improving Stability of Polyurethane<br>Foams  | 9650 |
| 6996   | China P.R.                    | ISSUED   | 200810094855.X  | 4/28/2008  | 200810094855.X | 6/20/2012  | New Amine Composition  | 9650 |
| 6996   | Germany                       | ISSUED   | 8007973.4       | 4/24/2008  | 6.02008E+11    | 1/14/2015  | New Amine Composition  | 9650 |
| 6996   | Japan                         | ISSUED   | 2008-113037     | 4/23/2008  | 4723610        | 4/15/2011  | New Amine Composition  | 9650 |
| 6996   | United States                 | ISSUED   | 11/740307       | 4/26/2007  | 9133306        | 9/15/2015  | Amine Composition  | 9650 |
| 06996C | United States                 | PENDING  | 14/742847       | 6/18/2015  |                |            | Amine Composition  | 9650 |

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|----------|----------------------------|---------|-----------------|-----------|----------------|------------|---|------|
| 06996D   | European Patent Convention | PENDING | 14003723.5      | 4/24/2008 |                |            | New Amine Composition   | 9650 |
| 06996D   | Korea South                | ISSUED  | 10-2010-0038467 | 4/21/2008 | 1257986        | 4/18/2013  | New Amine Composition   | 9650 |
| 06996D2  | Korea South                | ISSUED  | 10-2012-0018581 | 4/21/2008 | 1419108        | 7/7/2014   | New Amine Composition   | 9650 |
| 06997ZP  | Brazil                     | PENDING | PI0804752.9     | 9/18/2008 |                |            | Autocatalytic Polyols   | 9650 |
| 06997ZP  | China P.R.                 | ISSUED  | 2.0081E+11      | 9/19/2008 | 2.0081E+11     | 9/28/2011  | Autocatalytic Polyols   | 9650 |
| 06997ZP  | France                     | ISSUED  | 8016479.1       | 9/18/2008 | 2039713        | 3/26/2014  | Autocatalytic Polyols   | 9650 |
| 06997ZP  | Germany                    | ISSUED  | 8016479.1       | 9/18/2008 | 6.02008E+11    | 3/26/2014  | Autocatalytic Polyols   | 9650 |
| 06997ZP  | Great Britain              | ISSUED  | 8016479.1       | 9/18/2008 | 2039713        | 3/26/2014  | Autocatalytic Polyols   | 9650 |
| 06997ZP  | Italy                      | ISSUED  | 5.02015E+14     | 9/18/2008 | 2039713        | 3/26/2014  | Autocatalytic Polyols   | 9650 |
| 06997ZP  | Japan                      | ISSUED  | 2008-241177     | 9/19/2008 | 5254719        | 4/26/2013  | Autocatalytic Polyols   | 9650 |
| 06997ZP  | Spain                      | ISSUED  | 8016479.1       | 9/18/2008 | 2039713        | 3/26/2014  | Autocatalytic Polyols   | 9650 |
| 06997ZP  | United States              | ISSUED  | 12/207745       | 9/10/2008 | 8367870        | 2/5/2013   | Autocatalytic Polyols   | 9650 |
| 06997ZPD | European Patent Convention | PENDING | 14000074.6      | 9/18/2008 |                |            | Autocatalytic Polyols   | 9650 |
| 06997ZPD | Korea South                | ISSUED  | 10-2012-0008578 | 9/19/2008 | 1323932        | 10/24/2013 | Autocatalytic Polyols   | 9650 |
| 7063     | China P.R.                 | ISSUED  | 200810091928.X  | 4/10/2008 | 200810091928.X | 3/14/2012  | Polyalkylenearmine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems | 9630 |
| 7063     | France                     | ISSUED  | 8006106.2       | 3/28/2008 | 1980542        | 6/15/2011  | Polyalkylenearmine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems | 9630 |
| 7063     | Germany                    | ISSUED  | 8006106.2       | 3/28/2008 | 6.02008E+11    | 6/15/2011  | Polyalkylenearmine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems | 9630 |
| 7063     | Great Britain              | ISSUED  | 8006106.2       | 3/28/2008 | 1980542        | 6/15/2011  | Polyalkylenearmine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems | 9630 |
| 7063     | India                      | ISSUED  | 875/CHE/2008    | 4/8/2008  | 260475         | 4/30/2014  | Polyalkylenearmine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems | 9630 |
| 7063     | Italy                      | ISSUED  | 5.02012E+14     | 3/28/2008 | 1980542        | 6/15/2011  | Polyalkylenearmine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems | 9630 |
| 7063     | Japan                      | ISSUED  | 2008-101382     | 4/9/2008  | 4913771        | 1/27/2012  | Polyalkylenearmine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems | 9630 |

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|--------|---------------|---------|-----------------|------------|-------------|------------|---|------|
| 7063   | Korea South   | ISSUED  | 10-2008-0031586 | 4/4/2008   | 965174      | 6/14/2010  | Polyalkyleneamine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems        | 9630 |
| 7063   | United States | ISSUED  | 11/733407       | 4/10/2007  | 8519091     | 8/27/2013  | Polyalkyleneamine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems        | 9630 |
| 07063D | Japan         | ISSUED  | 2011-254014     | 4/9/2008   | 5543420     | 5/16/2014  | Polyalkyleneamine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems        | 9630 |
| 7088   | China P.R.    | ISSUED  | 2.0081E+11      | 7/25/2008  | 2.0081E+11  | 3/27/2013  | Process for Preparing Aminobenzoate Esters  | 9650 |
| 7088   | France        | ISSUED  | 8161171.7       | 7/25/2008  | 2028177     | 11/18/2009 | Process for Preparing Aminobenzoate   | 9650 |
| 7088   | Germany       | ISSUED  | 8161171.7       | 7/25/2008  | 6.02008E+11 | 11/18/2009 | Process for Preparing Aminobenzoate   | 9650 |
| 7088   | Great Britain | ISSUED  | 8161171.7       | 7/25/2008  | 2028177     | 11/18/2009 | Process for Preparing Aminobenzoate   | 9650 |
| 7088   | Italy         | ISSUED  | 5.02011E+14     | 7/25/2008  | 2028177     | 11/18/2009 | Process for Preparing Aminobenzoate   | 9650 |
| 7088   | United States | ISSUED  | 11/829418       | 7/27/2007  | 7547798     | 6/16/2009  | Process for Preparing Aminobenzoate Esters  | 9650 |
| 7113   | France        | ISSUED  | 8009505.2       | 5/23/2008  | 1995262     | 10/26/2011 | Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability       | 9650 |
| 7113   | Germany       | ISSUED  | 8009505.2       | 5/23/2008  | 6.02008E+11 | 10/26/2011 | Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability       | 9650 |
| 7113   | Great Britain | ISSUED  | 8009505.2       | 5/23/2008  | 1995262     | 10/26/2011 | Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability       | 9650 |
| 7113   | Italy         | ISSUED  | 5.02012E+14     | 5/23/2008  | 1995262     | 10/26/2011 | Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability       | 9650 |
| 7113   | Spain         | ISSUED  | 8009505.2       | 5/23/2008  | 1995262     | 10/26/2011 | Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability       | 9650 |
| 7113   | United States | ISSUED  | 11/753633       | 5/25/2007  | 8637584     | 1/28/2014  | Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability       | 9650 |
| 07113C | United States | PENDING | 14/105276       | 12/13/2013 |             |            | Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability       | 9650 |
| 07113D | China P.R.    | PENDING | 2.0141E+11      | 5/23/2008  |             |            | Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability       | 9650 |
| 7116   | Japan         | ISSUED  | 2008-154668     | 6/12/2008  | 5452890     | 1/10/2014  | Tetraalkylammonium Carboxylate Salts as Trimerization Catalysts for Spray Foam Applications | 9650 |
| 7135   | Germany       | ISSUED  | 8021087.5       | 12/4/2008  | 6.02008E+11 | 6/24/2015  | Impact Resistive Composite Materials and Methods for  | 9650 |

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|--------|----------------------------|---------|-----------------|-----------|------------|------------|---|------|
| 7135   | Great Britain              | ISSUED  | 8021087.5       | 12/4/2008 | 2068111    | 6/24/2015  | Making Same<br>Impact Resistive Composite Materials and Methods for Making Same | 9650 |
| 7135   | Israel                     | ISSUED  | 195681          | 12/3/2008 | 195681     | 9/29/2012  | Impact Resistive Composite Materials and Methods for Making Same                | 9650 |
| 7135   | Italy                      | ISSUED  | 5.02015E+14     | 12/4/2008 | 2068111    | 6/24/2015  | Impact Resistive Composite Materials and Methods for Making Same                | 9650 |
| 7135   | United States              | ISSUED  | 11/950709       | 12/5/2007 | 7608322    | 10/27/2009 | Impact Resistive Composite Materials and Methods for Making Same                | 9650 |
| 07135D | Israel                     | PENDING | 219846          | 5/17/2012 |            |            | Impact Resistive Composite Materials and Methods for Making Same                | 9650 |
| 7151   | China P. R.                | ISSUED  | 2.0091E+11      | 4/9/2009  | 2.0091E+11 | 1/2/2013   | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7151   | European Patent Convention | PENDING | 9004986.7       | 4/3/2009  |            |            | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7151   | France                     | PENDING | 9004986.7       | 4/3/2009  |            |            | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7151   | Germany                    | PENDING | 9004986.7       | 4/3/2009  |            |            | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7151   | Great Britain              | PENDING | 9004986.7       | 4/3/2009  |            |            | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7151   | Italy                      | PENDING | 9004986.7       | 4/3/2009  |            |            | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7151   | Japan                      | ISSUED  | 2009-093609     | 4/8/2009  | 5336245    | 8/9/2013   | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7151   | Korea South                | ISSUED  | 10-2009-0030399 | 4/8/2009  | 1161475    | 6/25/2012  | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7151   | United States              | ISSUED  | 12/100096       | 4/9/2008  | 8735512    | 5/27/2014  | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 07151D | United States              | ISSUED  | 14/265731       | 4/30/2014 | 9334409    | 5/10/2016  | Curing Agent for Low Temperature Cure Applications                              | 9630 |
| 7154   | Canada                     | ISSUED  | 2661111         | 4/1/2009  | 2661111    | 1/10/2012  | Molecular De-Airentainer Compositions and Methods of Use of Same                | 9620 |
| 7154   | China P. R.                | PENDING | 2.0091E+11      | 4/8/2009  |            |            | Molecular De-Airentainer Compositions and Methods of Use of Same                | 9620 |
| 7154   | France                     | ISSUED  | 9004985.9       | 4/3/2009  | 2128112    | 5/11/2016  | Molecular De-Airentainer Compositions and Methods of Use of Same                | 9620 |
| 7154   | Germany                    | ISSUED  | 9004985.9       | 4/3/2009  | 2128112    | 5/11/2016  | Molecular De-Airentainer Compositions and Methods of Use of Same                | 9620 |
| 7154   | Great Britain              | ISSUED  | 9004985.9       | 4/3/2009  | 2128112    | 5/11/2016  | Molecular De-Airentainer Compositions and Methods of Use of Same                | 9620 |
| 7154   | Italy                      | ISSUED  | 9004985.9       | 4/3/2009  | 2128112    | 5/11/2016  | Molecular De-Airentainer Compositions and Methods of Use of Same                | 9620 |

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|---------|-------------------------------|----------|-----------------|-----------|-------------|------------|---|------|
| 7154    | Japan                         | ISSUED   | 2009-093397     | 4/7/2009  | 5091181     | 9/21/2012  | of Use of Same<br>Molecular De-Airetrainer Compositions and Methods<br>of Use of Same | 9620 |
| 7154    | Korea South                   | ISSUED   | 10-2009-0029934 | 4/7/2009  | 1281838     | 6/27/2013  | Molecular De-Airetrainer Compositions and Methods<br>of Use of Same                   | 9620 |
| 7154    | Poland                        | ISSUED   | 9004985.9       | 4/3/2009  | 2128112     | 5/11/2016  | Molecular De-Airetrainer Compositions and Methods<br>of Use of Same                   | 9620 |
| 7154    | Spain                         | ISSUED   | 9004985.9       | 4/3/2009  | 2128112     | 5/11/2016  | Molecular De-Airetrainer Compositions and Methods<br>of Use of Same                   | 9620 |
| 7154    | Turkey                        | ISSUED   | 9004985.9       | 4/3/2009  | 2128112     | 5/11/2016  | Molecular De-Airetrainer Compositions and Methods<br>of Use of Same                   | 9620 |
| 7154    | United Arab<br>Emirates       | PENDING  | 319/2009        | 4/8/2009  |             |            | Molecular De-Airetrainer Compositions and Methods<br>of Use of Same                   | 9620 |
| 07154D  | China P. R.                   | PENDING  | 2.0151E+11      | 4/8/2009  |             |            | Molecular De-Airetrainer Compositions and Methods<br>of Use of Same                   | 9620 |
| 07154D  | Japan                         | DOCKETED |                 |           |             |            | Molecular De-Airetrainer Compositions and Methods<br>of Use of Same                   | 9620 |
| 07154D2 | Korea South                   | ISSUED   | 10-2013-0047510 | 4/7/2009  | 1502218     | 3/6/2015   | Molecular De-Airetrainer Compositions and Methods<br>of Use of Same                   | 9620 |
| 7183    | China P. R.                   | ISSUED   | 2.0091E+11      | 8/25/2009 | 2.0091E+11  | 9/4/2013   | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 7183    | France                        | ISSUED   | 9010556         | 8/17/2009 | 2159215     | 11/26/2014 | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 7183    | Germany                       | ISSUED   | 9010556         | 8/17/2009 | 6.02009E+11 | 11/26/2014 | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 7183    | Great Britain                 | ISSUED   | 9010556         | 8/17/2009 | 2159215     | 11/26/2014 | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 7183    | Italy                         | ISSUED   | 5.02015E+14     | 8/17/2009 | 2159215     | 11/26/2014 | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 7183    | Japan                         | ISSUED   | 2009-192869     | 8/24/2009 | 5175251     | 1/11/2013  | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 7183    | Korea South                   | ISSUED   | 10-2009-0078717 | 8/25/2009 | 1282541     | 6/28/2013  | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 7183    | United States                 | ISSUED   | 12/197511       | 8/25/2008 | 8501997     | 8/6/2013   | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 07183A  | European Patent<br>Convention | PENDING  | 9010555.2       | 8/17/2009 |             |            | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 07183A  | Japan                         | ISSUED   | 2009-192873     | 8/24/2009 | 5378913     | 10/4/2013  | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |
| 07183A  | Korea South                   | PENDING  | 10-2009-0078719 | 8/25/2009 |             |            | Curing Agent for Low Temperature Cure Applications\n                                  | 9630 |

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|----------|----------------------------|----------|-----------------|-----------|-------------|------------|--|------|
| 07183A   | United States              | ISSUED   | 12/19/7585      | 8/25/2008 | 8512594     | 8/20/2013  | Curing Agent of N,N'-Dimethyl-Meta-Xylenediamine and Multifunctional Amin(s) | 9630 |
| 07183AD  | China P.R.                 | PENDING  | 2.0151E+11      | 8/25/2009 |             |            | Curing Agent for Low Temperature Cure Applications\n                         | 9630 |
| 07183AD  | Japan                      | ISSUED   | 2013-114249     | 8/24/2009 | 5744967     | 5/15/2015  | Curing Agent for Low Temperature Cure Applications\n                         | 9630 |
| 07183AD  | Korea South                | ISSUED   | 10-2012-0083463 | 8/25/2009 | 1486838     | 1/21/2015  | Curing Agent for Low Temperature Cure Applications\n                         | 9630 |
| 07183AD3 | Korea South                | DOCKETED |                 |           |             |            | Curing Agent for Low Temperature Cure Applications\n                         | 9630 |
| 07183D   | European Patent Convention | PENDING  | 14001846.6      | 8/17/2009 |             |            | Curing Agent for Low Temperature Cure Applications\n                         | 9630 |
| 07183D   | Korea South                | PENDING  | 10-2012-0083403 | 8/25/2009 |             |            | Curing Agent for Low Temperature Cure Applications\n                         | 9630 |
| 07183D2  | Korea South                | ISSUED   | 10-2012-0087928 | 8/25/2009 | 1514113     | 4/15/2015  | Curing Agent for Low Temperature Cure Applications\n                         | 9630 |
| 7188     | China P.R.                 | ISSUED   | 2.0091E+11      | 8/6/2009  | 2.0091E+11  | 6/19/2013  | Benzylated Aminopropylated Ethylenediamines and Uses Thereof                 | 9630 |
| 7188     | European Patent Convention | PENDING  | 9009838.5       | 7/29/2009 |             |            | Benzylated Aminopropylated Ethylenediamines and Uses Thereof                 | 9630 |
| 7188     | Japan                      | ISSUED   | 2009-180562     | 8/3/2009  | 5400519     | 11/1/2013  | Benzylated Aminopropylated Ethylenediamines and Uses Thereof                 | 9630 |
| 7188     | Korea South                | ISSUED   | 10-2009-0072001 | 8/5/2009  | 1353155     | 1/13/2014  | Benzylated Aminopropylated Ethylenediamines and Uses Thereof                 | 9630 |
| 7188     | United States              | ISSUED   | 12/186568       | 8/6/2008  | 8318309     | 11/27/2012 | Benzylated Aminopropylated Alkylenediamines and Uses Thereof                 | 9630 |
| 07188A   | China P.R.                 | ISSUED   | 2.0091E+11      | 8/6/2009  | 2.0091E+11  | 6/19/2013  | Alkylated Aminopropylated Ethylenediamines and Uses Thereof                  | 9630 |
| 07188A   | Denmark                    | ISSUED   | 9009836.9       | 7/29/2009 | 2157113     | 9/7/2011   | Alkylated Aminopropylated Ethylenediamines and Uses Thereof                  | 9630 |
| 07188A   | France                     | ISSUED   | 9009836.9       | 7/29/2009 | 2157113     | 9/7/2011   | Alkylated Aminopropylated Ethylenediamines and Uses Thereof                  | 9630 |
| 07188A   | Germany                    | ISSUED   | 9009836.9       | 7/29/2009 | 6.02009E+11 | 9/7/2011   | Alkylated Aminopropylated Ethylenediamines and Uses Thereof                  | 9630 |
| 07188A   | Great Britain              | ISSUED   | 9009836.9       | 7/29/2009 | 2157113     | 9/7/2011   | Alkylated Aminopropylated Ethylenediamines and Uses Thereof                  | 9630 |
| 07188A   | United States              | ISSUED   | 12/186574       | 8/6/2008  | 8198395     | 6/12/2012  | Alkylated Aminopropylated Ethylenediamines and Uses Thereof                  | 9630 |

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|---------|----------------------------|---------|-----------------|-----------|-------------|-----------|--|------|
| 07188B  | China P. R.                | ISSUED  | 2.0091E+11      | 8/6/2009  | 2.0091E+11  | 3/13/2013 | Alkylated Aminopropylated Methylene-Di-(Cyclohexylamine) and Uses Thereof                  | 9630 |
| 07188B  | Denmark                    | ISSUED  | 9009839.3       | 7/29/2009 | 2151463     | 9/7/2011  | Alkylated Aminopropylated Methylene-Di-(Cyclohexylamine) and Uses Thereof                  | 9630 |
| 07188B  | France                     | ISSUED  | 9009839.3       | 7/29/2009 | 2151463     | 9/7/2011  | Alkylated Aminopropylated Methylene-Di-(Cyclohexylamine) and Uses Thereof                  | 9630 |
| 07188B  | Germany                    | ISSUED  | 9009839.3       | 7/29/2009 | 6.02009E+11 | 9/7/2011  | Alkylated Aminopropylated Methylene-Di-(Cyclohexylamine) and Uses Thereof                  | 9630 |
| 07188B  | Great Britain              | ISSUED  | 9009839.3       | 7/29/2009 | 2151463     | 9/7/2011  | Alkylated Aminopropylated Methylene-Di-(Cyclohexylamine) and Uses Thereof                  | 9630 |
| 07188B  | United States              | ISSUED  | 12/186607       | 8/6/2008  | 7993751     | 8/9/2011  | Alkylated Aminopropylated Methylene-Di-(Cyclohexylamine) and Uses Thereof                  | 9630 |
| 7189    | United States              | ISSUED  | 12/186768       | 8/6/2008  | 8147964     | 4/3/2012  | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189A  | China P. R.                | PENDING | 2.0091E+11      | 8/6/2009  |             |           | Alkylated Polyalkylene Polyamines and Uses Thereof   | 9630 |
| 07189A  | European Patent Convention | PENDING | 9009826         | 7/29/2009 |             |           | Alkylated Polyalkylene Polyamines and Uses Thereof   | 9630 |
| 07189A  | United States              | ISSUED  | 12/186826       | 8/6/2008  | 8518547     | 8/27/2013 | Alkylated Polyalkylene Polyamines and Uses Thereof   | 9630 |
| 07189AD | China P. R.                | PENDING | 2.0151E+11      | 8/6/2009  |             |           | Alkylated Polyalkylene Polyamines and Uses Thereof   | 9630 |
| 07189P  | China P. R.                | ISSUED  | 2.0091E+11      | 8/6/2009  | 2.0091E+11  | 2/12/2014 | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189P  | France                     | ISSUED  | 9009837.7       | 7/29/2009 | 2151461     | 4/29/2015 | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189P  | Germany                    | ISSUED  | 9009837.7       | 7/29/2009 | 6.02009E+11 | 4/29/2015 | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189P  | Great Britain              | ISSUED  | 9009837.7       | 7/29/2009 | 2151461     | 4/29/2015 | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189P  | Italy                      | ISSUED  | 5.02015E+14     | 7/29/2009 | 2151461     | 4/29/2015 | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189P  | Japan                      | ISSUED  | 2009-178645     | 7/31/2009 | 5400516     | 11/1/2013 | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189P  | Korea South                | ISSUED  | 10-2009-0072002 | 8/5/2009  | 1353813     | 1/14/2014 | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189P  | United States              | ISSUED  | 12/369422       | 2/11/2009 | 8168296     | 5/1/2012  | Benzylated Polyalkylene Polyamines and Uses Thereof  | 9630 |
| 07189PD | China P. R.                | PENDING | 2.0141E+11      | 8/6/2009  |             |           | Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates                                  | 9630 |
| 7198    | China P. R.                | ISSUED  | 2.0091E+11      | 8/21/2009 | 2.0091E+11  | 7/4/2012  | Alkylates  | 9630 |
| 7198    | Germany                    | ISSUED  | 9168312.8       | 8/20/2009 | 6.02009E+11 | 2/8/2012  | Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates as Curatives for Polyisocyanates | 9630 |



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|---------|----------------------------|---------|-----------------|------------|-------------|------------|--|------|
| 7198    | Great Britain              | ISSUED  | 9168312.8       | 8/20/2009  | 2157110     | 2/8/2012   | Mixed Polycycloaliphatic Amines (MPCA) and MP/CA Alkylates as Curatives for Polyisocyanates  | 9630 |
| 7198    | India                      | ISSUED  | 1985/CHE/2009   | 8/20/2009  | 268545      | 9/2/2015   | Mixed Polycycloaliphatic Amines (MP/CA) and MP/CA Alkylates                                  | 9630 |
| 7198    | Italy                      | ISSUED  | 5.02013E+14     | 8/20/2009  | 2157110     | 2/8/2012   | Mixed Polycycloaliphatic Amines (MP/CA) and MP/CA Alkylates as Curatives for Polyisocyanates | 9630 |
| 7198    | Japan                      | ISSUED  | 2009-190357     | 8/19/2009  | 5319454     | 7/19/2013  | Mixed Polycycloaliphatic Amines (MP/CA) and MP/CA Alkylates                                  | 9630 |
| 7198    | United States              | ISSUED  | 12/196606       | 8/22/2008  | 8026318     | 9/27/2011  | Mixed Polycycloaliphatic Amines (MP/CA) and MP/CA Alkylates                                  | 9630 |
| 07198D  | European Patent Convention | PENDING | 11195074.7      | 8/20/2009  |             |            | Mixed Polycycloaliphatic Amines (MP/CA) and MP/CA Alkylates as Curatives for Polyisocyanates | 9630 |
| 07198D  | India                      | PENDING | 2551/CHE/2015   | 8/20/2009  |             |            | Mixed Polycycloaliphatic Amines (MP/CA) and MP/CA Alkylates                                  | 9630 |
| 07198D  | United States              | ISSUED  | 13/216687       | 8/24/2011  | 8759470     | 6/24/2014  | Alkylated 4-Aminobenzyl-4-Aminocyclohexane   | 9630 |
| 7219    | China P.R.                 | ISSUED  | 2.0091E+11      | 8/21/2009  | 2.0091E+11  | 7/10/2013  | N-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as Curing Agents in Polymer Compositions       | 9630 |
| 7219    | France                     | ISSUED  | 9167997.7       | 8/17/2009  | 2157079     | 1/2/2013   | N-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as Curing Agents in Polymer Compositions       | 9630 |
| 7219    | Germany                    | ISSUED  | 9167997.7       | 8/17/2009  | 6.02009E+11 | 1/2/2013   | N-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as Curing Agents in Polymer Compositions       | 9630 |
| 7219    | Great Britain              | ISSUED  | 9167997.7       | 8/17/2009  | 2157079     | 1/2/2013   | N-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as Curing Agents in Polymer Compositions       | 9630 |
| 7219    | Italy                      | ISSUED  | 5.02014E+14     | 8/17/2009  | 2157079     | 1/2/2013   | N-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as Curing Agents in Polymer Compositions       | 9630 |
| 7219    | Japan                      | ISSUED  | 2009-191921     | 8/21/2009  | 5237224     | 4/5/2013   | Alkylated 4-Aminobenzyl-4-Aminocyclohexane   | 9630 |
| 7219    | Korea South                | ISSUED  | 10-2009-0077771 | 8/21/2009  | 1344593     | 12/17/2013 | A Curing Agent   | 9630 |
| 07219D  | Korea South                | ISSUED  | 10-2011-0104708 | 8/21/2009  | 1411069     | 6/17/2014  | A Polymeric Composition and a Method for Producing the Same                                  | 9630 |
| 07219D2 | Korea South                | ISSUED  | 10-2012-0123362 | 8/21/2009  | 1411222     | 6/17/2014  | A Curing Agent   | 9630 |
| 7283    | China P.R.                 | ISSUED  | 2.00911E+11     | 12/11/2009 | 2.00911E+11 | 3/20/2013  | Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam                   | 9650 |

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| 7283   | France                                      | ISSUED | 9178255.7       | 12/8/2009  | 2196493     | 2/22/2012  | Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam                            | 9650 |
| 7283   | Germany                                     | ISSUED | 9178255.7       | 12/8/2009  | 6.02009E+11 | 2/22/2012  | Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam                            | 9650 |
| 7283   | Great Britain                               | ISSUED | 9178255.7       | 12/8/2009  | 2196493     | 2/22/2012  | Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam                            | 9650 |
| 7283   | Italy                                       | ISSUED | 5.02013E+14     | 12/8/2009  | 2196493     | 2/22/2012  | Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam                            | 9650 |
| 7283   | Spain                                       | ISSUED | 9178255.7       | 12/8/2009  | 2196493     | 2/22/2012  | Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam                            | 9650 |
| 7283   | United States                               | ISSUED | 12/332845       | 12/11/2008 | 7872055     | 1/18/2011  | Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam                            | 9650 |
| 07307P | China P.R.<br>European Patent<br>Convention | ISSUED | 2.0101E+11      | 4/29/2010  | 2.0101E+11  | 6/3/2015   | Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts | 9630 |
| 07307P | Japan                                       | ISSUED | 2010-098630     | 4/22/2010  | 5368362     | 9/20/2013  | Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts | 9630 |
| 07307P | Korea South                                 | ISSUED | 10-2010-0039467 | 4/28/2010  | 10-1303646  | 8/29/2013  | Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts | 9630 |
| 07307P | Taiwan                                      | ISSUED | 99113122        | 4/26/2010  | 440649      | 6/11/2014  | Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts | 9630 |
| 07307P | United States                               | ISSUED | 12/609068       | 10/30/2009 | 8357764     | 1/22/2013  | Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts | 9630 |
| 7350   | China P.R.                                  | ISSUED | 2.0101E+11      | 9/9/2010   | 2.0101E+11  | 8/27/2014  | Low Temperature Curable Epoxy Compositions Containing Urea Curatives                                  | 9630 |
| 7350   | France                                      | ISSUED | 10009284        | 9/7/2010   | 2295483     | 10/29/2014 | Low Temperature Curable Epoxy Compositions Containing Urea Curatives                                  | 9630 |
| 7350   | Germany                                     | ISSUED | 10009284        | 9/7/2010   | 6.0201E+11  | 10/29/2014 | Low Temperature Curable Epoxy Compositions Containing Urea Curatives                                  | 9630 |
| 7350   | Great Britain                               | ISSUED | 10009284        | 9/7/2010   | 2295483     | 10/29/2014 | Low Temperature Curable Epoxy Compositions Containing Urea Curatives                                  | 9630 |

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| 7350    | Italy                      | ISSUED  | 5.02015E+14     | 9/7/2010   | 2295483    | 10/29/2014 | Low Temperature Curable Epoxy Compositions Containing Urea Curatives                  | 9630 |
| 7350    | Japan                      | ISSUED  | 2010-202979     | 9/10/2010  | 5603180    | 8/29/2014  | Low Temperature Curable Epoxy Compositions Containing Urea Curatives                  | 9630 |
| 7350    | Korea South                | ISSUED  | 10-2010-0088834 | 9/10/2010  | 10-1308611 | 9/9/2013   | Low Temperature Curable Epoxy Compositions Containing Urea Curatives                  | 9630 |
| 7350    | United States              | ISSUED  | 12/557824       | 9/11/2009  | 8076395    | 12/13/2011 | Low Temperature Curable Epoxy Compositions Containing Urea Curatives                  | 9630 |
| 7355    | China P. R.                | ISSUED  | 2.0101E+11      | 9/9/2010   | 2.0101E+11 | 3/27/2013  | Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives | 9630 |
| 7355    | France                     | ISSUED  | 10009283.2      | 9/7/2010   | 2295486    | 2/29/2012  | Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives | 9630 |
| 7355    | Germany                    | ISSUED  | 10009283.2      | 9/7/2010   | 6.0201E+11 | 2/29/2012  | Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives | 9630 |
| 7355    | Great Britain              | ISSUED  | 10009283.2      | 9/7/2010   | 2295486    | 2/29/2012  | Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives | 9630 |
| 7355    | Italy                      | ISSUED  | 5.02013E+14     | 9/7/2010   | 2295486    | 2/29/2012  | Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives | 9630 |
| 7355    | Japan                      | ISSUED  | 2010-203069     | 9/10/2010  | 5395019    | 10/25/2013 | Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives | 9630 |
| 7355    | Korea South                | ISSUED  | 10-2010-0088829 | 9/10/2010  | 10-1150669 | 5/21/2012  | Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives | 9630 |
| 7355    | United States              | ISSUED  | 12/557930       | 9/11/2009  | 7910667    | 3/22/2011  | Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives | 9630 |
| 073792P | Brazil                     | PENDING | 1.12012E+12     | 12/16/2010 |            |            | Polymeric Compositions for Personal Care Products                                     | 9620 |
| 073792P | China P. R.                | ISSUED  | 2.0108E+11      | 12/16/2010 | 2.0108E+11 | 12/3/2014  | Polymeric Compositions for Personal Care Products                                     | 9620 |
| 073792P | European Patent Convention | PENDING | 10800822.8      | 12/16/2010 |            |            | Polymeric Compositions for Personal Care Products                                     | 9620 |
| 073792P | Japan                      | ISSUED  | 2012-544805     | 12/16/2010 | 5731535    | 4/17/2015  | Polymeric Compositions for Personal Care Products                                     | 9620 |
| 073792P | United States              | ISSUED  | 12/967752       | 12/14/2010 | 9233063    | 1/12/2016  | Polymeric Compositions for Personal Care Products                                     | 9620 |
| 7384    | China P. R.                | PENDING | 2.0128E+12      | 5/24/2012  |            |            | Benzylated Polyamine Curing Agents  | 9630 |

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| 7384     | European Patent Convention | PENDING | 12726527         | 5/24/2012 |                | Benzylated Polyamine Curing Agents                    | 9630 |
| 7384     | India                      | PENDING | 2907/CHENP/2014  | 5/24/2012 |                | Benzylated Polyamine Curing Agents                    | 9630 |
| 7384     | Japan                      | PENDING | 2014-531807      | 5/24/2012 |                | Benzylated Polyamine Curing Agents                    | 9630 |
| 7384     | Korea South                | ISSUED  | 10-2014-7010875  | 5/24/2012 | 10-1590981     | Benzylated Polyamine Curing Agents                    | 9630 |
| 7384     | United States              | ISSUED  | 13/242153        | 9/23/2011 | 8729213        | Benzylated Polyamine Curing Agents                    | 9630 |
| 074442P  | Brazil                     | PENDING | BR112012033328.3 | 7/8/2011  |                | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | China P.R.                 | ISSUED  | 2.0118E+11       | 7/8/2011  | 2.0118E+11     | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | France                     | ISSUED  | 11738887.6       | 7/8/2011  | 2591031        | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | Germany                    | ISSUED  | 11738887.6       | 7/8/2011  | 6.02011E+11    | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | Great Britain              | ISSUED  | 11738887.6       | 7/8/2011  | 2591031        | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | Italy                      | ISSUED  | 5.02015E+14      | 7/8/2011  | 2591031        | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | Japan                      | ISSUED  | 2013-519725      | 7/8/2011  | 5860046        | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | Korea South                | ISSUED  | 10-2013-7003351  | 7/8/2011  | 10-1466075     | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | Mexico                     | PENDING | MX/a/2012/014825 | 7/8/2011  |                | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442P  | United States              | ISSUED  | 13/178562        | 7/8/2011  | 9334382        | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442PC | United States              | PENDING | 14/851081        | 9/11/2015 |                | Additives for improving Polyurethane Foam Performance | 9650 |
| 074442PD | France                     | ISSUED  | 14000650.3       | 7/8/2011  | 2738192        | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442PD | Germany                    | ISSUED  | 14000650.3       | 7/8/2011  | 6.02011E+11    | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442PD | Great Britain              | ISSUED  | 14000650.3       | 7/8/2011  | 2738192        | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442PD | Italy                      | ISSUED  | 5.02015E+14      | 7/8/2011  | 2738192        | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074442PD | Japan                      | PENDING | 2015-246153      | 7/8/2011  |                | Process for Producing Flexible Polyurethane Foam      | 9650 |
| 074452P  | Brazil                     | PENDING | BR1120120333291  | 7/8/2011  |                | Additives for improving Polyurethane Foam Performance | 9650 |
| 074452P  | China P.R.                 | ISSUED  | 201180033973.X   | 7/8/2011  | 201180033973.X | Additives for improving Polyurethane Foam Performance | 9650 |
| 074452P  | France                     | ISSUED  | 11738350.5       | 7/8/2011  | 2591035        | Additives for improving Polyurethane Foam Performance | 9650 |
| 074452P  | Germany                    | ISSUED  | 11738350.5       | 7/8/2011  | 6.02011E+11    | Additives for improving Polyurethane Foam Performance | 9650 |
| 074452P  | Great Britain              | ISSUED  | 11738350.5       | 7/8/2011  | 2591035        | Additives for improving Polyurethane Foam Performance | 9650 |

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| 07445ZP  | Italy         | ISSUED  | 5.02015E+14      | 7/8/2011  | 2591035     | 8/19/2015  | Performance Additives for improving Polyurethane Foam    | 9650 |
| 07445ZP  | Japan         | ISSUED  | 2013-519727      | 7/8/2011  | 5706525     | 3/6/2015   | Performance Additives for improving Polyurethane Foam    | 9650 |
| 07445ZP  | Korea South   | ISSUED  | 10-2013-7003349  | 7/8/2011  | 10-1498482  | 2/26/2015  | Performance Additives for improving Polyurethane Foam    | 9650 |
| 07445ZP  | Mexico        | PENDING | MX/a/2012/014822 | 7/8/2011  |             |            | Performance Additives for improving Polyurethane Foam    | 9650 |
| 07445ZP  | United States | PENDING | 13/178558        | 7/8/2011  |             |            | Performance Additives for improving Polyurethane Foam    | 9650 |
| 07445ZPC | United States | PENDING | 14/851054        | 9/11/2015 |             |            | Performance Additives for improving Polyurethane Foam    | 9650 |
| 07445ZPD | Korea South   | PENDING | 10-2015-7002282  | 7/8/2011  |             |            | Performance Additives for improving Polyurethane Foam    | 9650 |
| 07445ZPD | Mexico        | PENDING | MX/a/2016/005241 | 7/8/2011  |             |            | Performance Additives for improving Polyurethane Foam    | 9650 |
| 07471ZP  | China P. R.   | ISSUED  | 2.0111E+11       | 8/31/2011 | 2.0111E+11  | 7/29/2015  | Low Temperature Curable Epoxy Compositions               | 9630 |
| 07471ZP  | France        | ISSUED  | 11066993.7       | 8/26/2011 | 2426159     | 3/25/2015  | Low Temperature Curable Epoxy Compositions               | 9630 |
| 07471ZP  | Germany       | ISSUED  | 11066993.7       | 8/26/2011 | 6.02011E+11 | 3/25/2015  | Low Temperature Curable Epoxy Compositions               | 9630 |
| 07471ZP  | Great Britain | ISSUED  | 11066993.7       | 8/26/2011 | 2426159     | 3/25/2015  | Low Temperature Curable Epoxy Compositions               | 9630 |
| 07471ZP  | India         | PENDING | 2950/CHE/2011    | 8/29/2011 |             |            | Low Temperature Curable Epoxy Compositions               | 9630 |
| 07471ZP  | Italy         | ISSUED  | 5.02015E+14      | 8/26/2011 | 2426159     | 3/25/2015  | Low Temperature Curable Epoxy Compositions               | 9630 |
| 07471ZP  | Japan         | ISSUED  | 2011-188895      | 8/31/2011 | 5801653     | 9/4/2015   | Low Temperature Curable Epoxy Compositions               | 9630 |
| 07471ZP  | Korea South   | ISSUED  | 10-2011-0087735  | 8/31/2011 | 10-1239296  | 2/26/2013  | Low Temperature Curable Epoxy Compositions               | 9630 |
| 07471ZP  | United States | ISSUED  | 13/075403        | 3/30/2011 | 9279032     | 3/8/2016   | Low Temperature Curable Epoxy Compositions               | 9630 |
| 7475     | China P. R.   | ISSUED  | 2.0041E+11       | 4/8/2004  | 2.0041E+11  | 1/6/2010   | Cosmetic Composition Having A Particular Thermal Profile | 9620 |
| 7475     | United States | ISSUED  | 10/821919        | 4/12/2004 | 8999311     | 4/7/2015   | Cosmetic Composition Having a Certain Thermal Profile    | 9620 |
| 7477     | France        | ISSUED  | 7656             | 6/15/2000 | 2810237     | 7/26/2002  | Film-Forming Cosmetic Composition                        | 9620 |
| 7477     | Japan         | ISSUED  | 2001-180753      | 6/14/2001 | 3863392     | 10/6/2006  | Film-Forming Cosmetic Composition                        | 9620 |
| 7477     | United States | ISSUED  | 09/880792        | 6/15/2001 | 6464969     | 10/15/2002 | Film-Forming Cosmetic Composition                        | 9620 |
| 7478     | United States | PENDING | 09/881097        | 6/15/2001 |             |            | Film-Forming Cosmetic Composition                        | 9620 |

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|----------|----------------------------|---------|-----------------|-----------|--------------|------------|---|------|
| 07480ZP  | Belgium                    | ISSUED  | 11749292.6      | 8/11/2011 | 2603560      | 12/24/2014 | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | Canada                     | PENDING | 2807666         | 8/11/2011 |              |            | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | China P.R.                 | ISSUED  | 2.0118E+11      | 8/11/2011 | 2.0118E+11   | 6/3/2015   | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | France                     | ISSUED  | 11749292.6      | 8/11/2011 | 2603560      | 12/24/2014 | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | Germany                    | ISSUED  | 11749292.6      | 8/11/2011 | 6.02011E+11  | 12/24/2014 | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | Great Britain              | ISSUED  | 11749292.6      | 8/11/2011 | 2603560      | 12/24/2014 | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | Italy                      | ISSUED  | 5.02015E+14     | 8/11/2011 | 2603560      | 12/24/2014 | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | Japan                      | ISSUED  | 2013-524222     | 8/11/2011 | 5876485      | 1/29/2016  | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | Netherlands                | ISSUED  | 11749292.6      | 8/11/2011 | 2603560      | 12/24/2014 | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | Poland                     | ISSUED  | 11749292.6      | 8/11/2011 | 2603560      | 12/24/2014 | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | Turkey                     | ISSUED  | 11749292.6      | 8/11/2011 | TR2015/03219 | 12/24/2014 | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZP  | United States              | ISSUED  | 13/206545       | 8/10/2011 | 9290604      | 3/22/2016  | NPE-Free Emulsifiers for Water-Blown Polyurethane Spray Foam      | 9650 |
| 07480ZPD | Japan                      | PENDING | 2015-106987     | 8/11/2011 |              |            | Polyamides and Amidoamines from Selectively Modified Amine Amines | 9650 |
| 7486     | China P.R.                 | PENDING | 2.0128E+11      | 2/9/2012  |              |            | Polyamides and Amidoamines from Selectively Modified Amine Amines | 9630 |
| 7486     | European Patent Convention | PENDING | 12705739.6      | 2/9/2012  |              |            | Polyamides and Amidoamines from Selectively Modified Amine Amines | 9630 |
| 7486     | India                      | PENDING | 6546/CHENP/2013 | 2/9/2012  |              |            | Polyamides and Amidoamines from Selectively Modified Amine Amines | 9630 |
| 7486     | Japan                      | ISSUED  | 2013-558015     | 2/9/2012  | 5873114      | 1/22/2016  | Polyamides and Amidoamines from Selectively Modified Amine Amines | 9630 |

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| 7486    | Korea South                | ISSUED  | 10-2013-7027119   | 2/9/2012  | 10-1554628     | 9/15/2015  | Polyamides and Amidoamines from Selectively Modified Amine Amines          | 9630 |
| 7486    | United States              | ISSUED  | 13/047854         | 3/15/2011 | 8513376        | 8/20/2013  | Polyamides and Amidoamines from Selectively Modified Amine Amines          | 9630 |
| 07486D  | Japan                      | PENDING | 2015-222069       | 2/9/2012  |                |            | Polyamides and Amidoamines from Selectively Modified Amine Amines          | 9630 |
| 7497    | China P.R.                 | PENDING | 2.0128E+12        | 6/4/2012  |                |            | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7497    | France                     | ISSUED  | 12727518.8        | 6/4/2012  | 2742079        | 5/18/2016  | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7497    | Germany                    | ISSUED  | 12727518.8        | 6/4/2012  | 2742079        | 5/18/2016  | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7497    | Great Britain              | ISSUED  | 12727518.8        | 6/4/2012  | 2742079        | 5/18/2016  | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7497    | India                      | PENDING | 1813/CHENP/2014   | 6/4/2012  |                |            | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7497    | Italy                      | ISSUED  | 12727518.8        | 6/4/2012  | 2742079        | 5/18/2016  | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7497    | Japan                      | ISSUED  | 2014-525010       | 6/4/2012  | 5824152        | 10/16/2015 | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7497    | Korea South                | ISSUED  | 10-2014-7006628   | 6/4/2012  | 10-1552341     | 9/4/2015   | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7497    | United States              | ISSUED  | 13/208449         | 8/12/2011 | 9321881        | 4/26/2016  | Liquid Methylenedianiline Compositions                                     | 9630 |
| 7521    | China P.R.                 | ISSUED  | 201120118720.X    | 4/12/2011 | 201120118720.X | 3/28/2012  | Polyurethane Microporous Elastomer with Dense Layer of Epidermis           | 9650 |
| 7533    | United States              | PENDING | 13/168174         | 6/24/2011 |                |            | Epoxy Resin Compositions   | 9630 |
| 07533P  | China P.R.                 | PENDING | 2.0128E+12        | 6/7/2012  |                |            | Epoxy Resin Compositions   | 9630 |
| 07533P  | European Patent Convention | PENDING | 12801978.3        | 6/7/2012  |                |            | Epoxy Resin Compositions   | 9630 |
| 07533P  | India                      | PENDING | 9458/CHENP/2013   | 6/7/2012  |                |            | Epoxy Resin Compositions   | 9630 |
| 07533P  | Japan                      | PENDING | 2014-516175       | 6/7/2012  |                |            | Epoxy Resin Compositions   | 9630 |
| 07533P  | Korea South                | ISSUED  | 10-2014-7002082   | 6/7/2012  | 10-1552337     | 9/4/2015   | Epoxy Resin Compositions   | 9630 |
| 07533P  | Patent Cooperation Treaty  | PENDING | PCT/CN2012/076575 | 6/7/2012  |                |            | Epoxy Resin Compositions   | 9630 |
| 075392P | China P.R.                 | PENDING | 20128003771X      | 6/29/2012 |                |            | Process For Producing Flexible Polyurethane Foam Using Natural Oil Polyols | 9650 |
| 075392P | European Patent Convention | PENDING | 12735726.7        | 6/29/2012 |                |            | Process For Producing Flexible Polyurethane Foam Using Natural Oil Polyols | 9650 |
| 075392P | Korea South                | PENDING | 10-2014-7003158   | 6/29/2012 |                |            | Process For Producing Flexible Polyurethane Foam                           | 9650 |

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| 075392P  | United States                 | ISSUED  | 13/534239        | 6/27/2012 | 9145466     | 9/29/2015  | Using Natural Oil Polyols<br>Process For Producing Flexible Polyurethane Foam<br>Using Natural Oil Polyols           | 9650 |
| 075392PC | United States                 | PENDING | 14/867114        | 9/28/2015 |             |            | Process For Producing Flexible Polyurethane Foam<br>Using Natural Oil Polyols  | 9650 |
| 075402P  | Brazil                        | PENDING | BR112013031294.7 | 6/4/2012  |             |            | Reducing Emissions in Polyurethane Foam  | 9650 |
| 075402P  | China P. R.                   | PENDING | 2.0128E+12       | 6/4/2012  |             |            | Reducing Emissions in Polyurethane Foam  | 9650 |
| 075402P  | European Patent<br>Convention | PENDING | 12727028.8       | 6/4/2012  |             |            | Reducing Emissions in Polyurethane Foam  | 9650 |
| 075402P  | Korea South                   | ISSUED  | 10-2014-7002600  | 6/4/2012  | 10-1528578  | 6/8/2015   | Reducing Emissions in Polyurethane Foam  | 9650 |
| 075402P  | Mexico                        | PENDING | MX/a/2013/014216 | 6/4/2012  |             |            | Reducing Emissions in Polyurethane Foam  | 9650 |
| 075402P  | United States                 | PENDING | 13/486226        | 6/1/2012  |             |            | Reducing Emissions in Polyurethane Foam  | 9650 |
| 075402PD | Korea South                   | PENDING | 10-2015-7009517  | 6/4/2012  |             |            | Reducing Emissions in Polyurethane Foam<br>Method for Providing Dibenzoylmethane Derivatives<br>with Light Stability | 9620 |
| 7542     | France                        | ISSUED  | 99923706.8       | 6/9/1999  | 1096916     | 8/19/2009  | Method for Providing Dibenzoylmethane Derivatives<br>with Light Stability  | 9620 |
| 7542     | France                        | ISSUED  | 9808765          | 7/8/1998  | 2780884     | 7/19/2002  | Method for Providing Dibenzoylmethane Derivatives<br>with Light Stability  | 9620 |
| 7542     | Germany                       | ISSUED  | 99923706.8       | 6/9/1999  | 69941293.5  | 8/19/2009  | Method for Providing Dibenzoylmethane Derivatives<br>with Light Stability  | 9620 |
| 7542     | Spain                         | ISSUED  | 99923706.8       | 6/9/1999  | 1096916     | 8/19/2009  | Method for Providing Dibenzoylmethane Derivatives<br>with Light Stability  | 9620 |
| 7542     | United States                 | ISSUED  | 09/743224        | 6/9/1999  | 6569409     | 5/27/2003  | Method for Providing Dibenzoylmethane Derivatives<br>with Light Stability  | 9620 |
| 075432P  | China P. R.                   | ISSUED  | 2.0128E+12       | 6/29/2012 | 2.0128E+12  | 12/23/2015 | Additives for Improving Natural Oil Based Polyurethane<br>Foam Performance   | 9650 |
| 075432P  | France                        | ISSUED  | 12732940.7       | 6/29/2012 | 2729512     | 10/7/2015  | Additives for Improving Natural Oil Based Polyurethane<br>Foam Performance   | 9650 |
| 075432P  | Germany                       | ISSUED  | 12732940.7       | 6/29/2012 | 6.02012E+11 | 10/7/2015  | Additives for Improving Natural Oil Based Polyurethane<br>Foam Performance   | 9650 |
| 075432P  | Great Britain                 | ISSUED  | 12732940.7       | 6/29/2012 | 2729512     | 10/7/2015  | Additives for Improving Natural Oil Based Polyurethane<br>Foam Performance   | 9650 |
| 075432P  | Italy                         | ISSUED  | 5.02015E+14      | 6/29/2012 | 2729512     | 10/7/2015  | Additives for Improving Natural Oil Based Polyurethane<br>Foam Performance   | 9650 |



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|----------|----------------------------|---------|-----------------|-----------|-------------|---|---|------|
| 07543ZP  | Korea South                | PENDING | 10-2014-7003162 | 6/29/2012 |             | Additives for improving Natural Oil Based Polyurethane Foam Performance   | 9650  |      |
| 07543ZP  | United States              | PENDING | 13/534171       | 6/27/2012 |             | Additives for improving Natural Oil Based Polyurethane Foam Performance   | 9650  |      |
| 07543ZPD | Korea South                | PENDING | 10-2016-7004112 | 6/29/2012 |             | Additives for improving Natural Oil Based Polyurethane Foam Performance   | 9650  |      |
| 07546ZP  | Canada                     | PENDING | 2843329         | 7/25/2012 |             | Reduced Emissions Low Density Spray Polyurethane Foam   | 9650  |      |
| 07546ZP  | China P.R.                 | PENDING | 2.0128E+12      | 7/25/2012 |             | Reduced Emissions Low Density Spray Polyurethane Foam   | 9650  |      |
| 07546ZP  | European Patent Convention | PENDING | 12745610.1      | 7/25/2012 |             | Reduced Emissions Low Density Spray Polyurethane Foam   | 9650  |      |
| 07546ZP  | Japan                      | PENDING | 2014-523965     | 7/25/2012 |             | Reduced Emissions Low Density Spray Polyurethane Foam   | 9650  |      |
| 07546ZP  | Russian Federation         | ISSUED  | 2014107538      | 7/25/2012 | 2572626     | 1/20/2016   | Polyurethane Foam Formulation, Method for Preparing a Polyurethane Foam and Blowing Catalyst Composition Useful at That | 9650 |
| 07546ZP  | United States              | PENDING | 13/556334       | 7/24/2012 |             | Reduced Emissions Low Density Spray Polyurethane Foam   | 9650  |      |
| 07546ZPD | Russian Federation         | PENDING | 2015149756      | 7/25/2012 |             | Polyurethane Foam Formulation, Method for Preparing a Polyurethane Foam and Blowing Catalyst Composition Useful at That | 9650  |      |
| 07552ZP  | Canada                     | ISSUED  | 2788830         | 9/6/2012  | 2788830     | 1/12/2016   | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 07552ZP  | China P.R.                 | PENDING | 2.0121E+11      | 9/10/2012 |             | Silicone Containing Compositions and Uses Thereof   | 9620  |      |
| 07552ZP  | European Patent Convention | ISSUED  | 12005770.8      | 8/8/2012  | 2567999     | 7/2/2014  | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 07552ZP  | France                     | ISSUED  | 12005770.8      | 8/8/2012  | 2567999     | 7/2/2014  | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 07552ZP  | Germany                    | ISSUED  | 12005770.8      | 8/8/2012  | 6.02012E+11 | 7/2/2014  | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 07552ZP  | Great Britain              | ISSUED  | 12005770.8      | 8/8/2012  | 2567999     | 7/2/2014  | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 07552ZP  | Italy                      | ISSUED  | 12005770.8      | 8/8/2012  | 2567999     | 7/2/2014  | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 07552ZP  | Japan                      | ISSUED  | 2012-196824     | 9/7/2012  | 5706381     | 3/6/2015  | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 07552ZP  | Korea South                | ISSUED  | 10-2012-0099327 | 9/7/2012  | 10-1504997  | 3/17/2015   | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 07552ZP  | Spain                      | ISSUED  | 12005770.8      | 8/8/2012  | 2567999     | 7/2/2014  | Silicone Containing Compositions and Uses Thereof   | 9620 |

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|----------|----------------------------|---------|--------------------|------------|---------|-----------|---|------|
| 075522P  | United States              | ISSUED  | 13/411698          | 3/5/2012   | 8735524 | 5/27/2014 | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 075522PD | Japan                      | PENDING | 2014-263276        | 9/7/2012   |         |           | Silicone Containing Compositions and Uses Thereof   | 9620 |
| 075542P  | Canada                     | PENDING | 2854020            | 11/16/2012 |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 075542P  | China P.R.                 | PENDING | 2.0128E+12         | 11/16/2012 |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 075542P  | European Patent Convention | PENDING | 12795960.9         | 11/16/2012 |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 075542P  | Japan                      | PENDING | 2014-542488        | 11/26/2012 |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 075542P  | South Africa               | PENDING | 2014/03111         | 11/16/2012 |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 075542P  | United States              | PENDING | 13/678736          | 11/16/2012 |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 075542PD | Japan                      | PENDING | 2015-230405        | 11/26/2012 |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 7556     | Brazil                     | PENDING | BR11 2014 023452.3 | 3/30/2012  |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 7556     | China P.R.                 | PENDING | 2.0128E+12         | 3/30/2012  |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 7556     | European Patent Convention | PENDING | 12873125.4         | 3/30/2012  |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 7556     | Japan                      | PENDING | 2015-562045        | 3/30/2012  |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 7556     | Korea South                | PENDING | 10-2014-7030631    | 3/30/2012  |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 7556     | Mexico                     | PENDING | MX/a/2014/009777   | 3/30/2012  |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 7556     | United States              | PENDING | 14/387986          | 3/30/2012  |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |
| 075612P  | Brazil                     | PENDING | BR112014006674.4   | 10/3/2012  |         |           | Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid | 9650 |

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| 075612P  | China P.R.                 | PENDING | 2.0128E+12        | 10/3/2012 |            | Tertiary Amine Composition and Method for Making the Composition  | 9650 |
| 075612P  | European Patent Convention | PENDING | 12780577.8        | 10/3/2012 |            | Tertiary Amine Composition and Method for Making the Composition  | 9650 |
| 075612P  | Japan                      | PENDING | 2014-534648       | 10/3/2012 |            | Tertiary Amine Composition and Method for Making the Composition  | 9650 |
| 075612P  | Korea South                | PENDING | 10-2014-7012154   | 10/3/2012 |            | Tertiary Amine Composition and Method for Making the Composition  | 9650 |
| 075612P  | Mexico                     | PENDING | MX/a/2014/002468  | 10/3/2012 |            | Tertiary Amine Composition and Method for Making the Composition  | 9650 |
| 075612P  | United States              | ISSUED  | 13/633423         | 10/2/2012 | 9273175    | Tertiary Amine Composition and Method for Making the Composition  | 9650 |
| 075612PD | United States              | PENDING | 15/055744         | 2/29/2016 |            | Tertiary Amine Composition and Method for Making the Composition  | 9650 |
| 7581     | China P.R.                 | ISSUED  | 2.0128E+12        | 1/6/2012  | 2.0128E+12 | Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane                                | 9650 |
| 7581     | European Patent Convention | PENDING | 12864351.7        | 1/6/2012  |            | Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane                                | 9650 |
| 7581     | Mexico                     | PENDING | MX/a/2014/007797  | 1/6/2012  |            | Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane                                | 9650 |
| 7581     | Patent Cooperation Treaty  | PENDING | PCT/CN2012/070015 | 1/6/2012  |            | Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane                                | 9650 |
| 7581     | Taiwan                     | ISSUED  | 102100059         | 1/2/2013  | 468427     | Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane                                | 9650 |
| 7581     | United States              | PENDING | 14/370173         | 1/6/2012  |            | Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane                                | 9650 |
| 7582     | United States              | ISSUED  | 10/874733         | 6/24/2004 | 8524256    | Deodorant Cosmetic Composition Comprising at Least One Semicrystalline Polymer                            | 9620 |
| 7676     | China P.R.                 | PENDING | 2.0141E+12        | 7/16/2014 |            | Amines and Polymeric Phenols and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions | 9630 |

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| 7676 | European Patent Convention | PENDING | 14002461.3      | 7/16/2014 |            | Amines and Polymeric Phenols and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions   | 9630 |
| 7676 | India                      | PENDING | 3459/CHE/2014   | 7/14/2014 |            | Amines and Polymeric Phenols and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions   | 9630 |
| 7676 | Japan                      | PENDING | 2014-146836     | 7/17/2014 |            | Amines and Polymeric Phenols and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions   | 9630 |
| 7676 | Korea South                | ISSUED  | 10-2014-0089768 | 7/16/2014 | 10-1607646 | Amines and Polymeric Phenols and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions   | 9630 |
| 7676 | United States              | PENDING | 13/944312       | 7/17/2013 |            | Amines and Polymeric Phenols and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions   | 9630 |
| 7680 | Canada                     | PENDING | 2896721         | 2/25/2014 |            | Anhydride Accelerators for Epoxy Resin Systems  | 9630 |
| 7680 | China P.R.                 | PENDING | 2.0148E+12      | 2/25/2014 |            | Anhydride Accelerators for Epoxy Resin Systems  | 9630 |
| 7680 | European Patent Convention | PENDING | 14710692.6      | 2/25/2014 |            | Anhydride Accelerators for Epoxy Resin Systems  | 9630 |
| 7680 | India                      | PENDING | 5789/CHENP/2015 | 2/25/2014 |            | Anhydride Accelerators for Epoxy Resin Systems  | 9630 |
| 7680 | Japan                      | PENDING | 2015-560241     | 2/25/2014 |            | Anhydride Accelerators for Epoxy Resin Systems  | 9630 |
| 7680 | Korea South                | PENDING | 10-2015-7025931 | 2/25/2014 |            | Anhydride Accelerators for Epoxy Resin Systems  | 9630 |
| 7680 | Patent Cooperation Treaty  | PENDING | PCT/US14/18166  | 2/25/2014 |            | Anhydride Accelerators for Epoxy Resin Systems  | 9630 |
| 7680 | United States              | ISSUED  | 13/779842       | 2/28/2013 | 9080007    | Anhydride Accelerators for Epoxy Resin Systems Composition Comprising at Least One Liquid Fatty Phase Structured By at Least One Semi-Crystalline Polymer | 9630 |
| 7687 | China P.R.                 | ISSUED  | 2121517         | 5/3/2002  | 2121517    | 10/1/2008   | 9620 |
| 7687 | France                     | ISSUED  | 2290939.4       | 4/15/2002 | 1262164    | 12/4/2002   | 9620 |

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|------|--|---------|-----------------------------|------------------------|-------------|------------|---|----------------------|
| 7687 | Germany  | ISSUED  | 2290939.4                   | 4/15/2002              | 60219103.3  | 12/4/2002  | Composition Comprising at Least One Liquid Fatty Phase Structured By at Least One Semi-Crystalline Polymer  | 9620                 |
| 7687 | United States                                  | ISSUED  | 10/138326                   | 5/6/2002               | 7129276     | 10/31/2006 | Composition Comprising at Least One Liquid Fatty Phase Structured By at Least One Semi-Crystalline Polymer  | 9620                 |
| 7688 | China P. R.<br>European Patent<br>Convention   | PENDING | 201480019183X<br>14718895.7 | 3/31/2014<br>3/31/2014 |             |            | One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes<br>One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes<br>One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes | 9630<br>9630<br>9630 |
| 7688 | Japan  | PENDING | 2016-506344                 | 3/31/2014              |             |            | One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes   | 9630                 |
| 7688 | Korea South                                    | PENDING | 10-2015-7031479             | 11/2/2015              |             |            | One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes   | 9630                 |
| 7688 | United States<br>European Patent<br>Convention | PENDING | 13/857265<br>11157772.2     | 4/5/2013<br>3/10/2011  |             |            | One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes   | 9630                 |
| 7690 | Germany  | PENDING | 1.0201E+11                  | 3/17/2010              |             |            | Composition Having a Sirtuin Activator  | 9620                 |
| 7690 | South Africa                                   | ISSUED  | 2011/01850                  | 3/10/2011              | 2011/01850  | 11/28/2012 | Composition Having a Sirtuin Activator  | 9620                 |
| 7690 | United States                                  | PENDING | 12/833165                   | 7/9/2010               |             |            | Composition Having a Sirtuin Activator  | 9620                 |
| 7691 | European Patent<br>Convention                  | ISSUED  | 6114160.2                   | 5/18/2006              | 1726296     | 3/3/2010   | Cosmetic or Therapeutic Combined Preparation with Theanine  | 9620                 |
| 7691 | France   | ISSUED  | 6114160.2                   | 5/18/2006              | 1726296     | 3/3/2010   | Cosmetic or Therapeutic Combined Preparation with Theanine  | 9620                 |
| 7691 | Germany  | ISSUED  | 6114160.2                   | 5/18/2006              | 5.02006E+11 | 3/3/2010   | Cosmetic or Therapeutic Combined Preparation with Theanine  | 9620                 |
| 7691 | Great Britain                                  | ISSUED  | 6114160.2                   | 5/18/2006              | 1726296     | 3/3/2010   | Cosmetic or Therapeutic Combined Preparation with Theanine  | 9620                 |
| 7691 | Switzerland                                    | ISSUED  | 6114160.2                   | 5/18/2006              | 1726296     | 3/3/2010   | Cosmetic or Therapeutic Combined Preparation with Theanine  | 9620                 |

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|--------------------|--|--------------------|--------------------------------|------------------------|---------|--|---|------|
| 7692               | European Patent Convention                 | PENDING            | 11153734.6                     | 2/8/2011               |         | UV Protection Agent for the Skin or Hair Having a UV Filter Substance Encapsulated in a Vesicular Carrier System   | 9620  |      |
| 7692               | Germany                                    | PENDING            | 1.0201E+11                     | 2/12/2010              |         | UV Protection Agent for the Skin or Hair Having a UV Filter Substance Encapsulated in a Vesicular Carrier System   | 9620  |      |
| 7692               | United States                              | PENDING            | 12/833155                      | 7/9/2010               |         | UV Protection Agent for the Skin or Hair Having a UV Filter Substance Encapsulated in a Vesicular Carrier System   | 9620  |      |
| 07693ZP<br>07693ZP | Patent Cooperation Treaty<br>United States | PENDING<br>PENDING | PCT/US2015/017764<br>14/632037 | 2/26/2015<br>2/26/2015 |         | Catalyst Compositions and Methods for Making Foam Catalyst Compositions and Methods for Making Foam Cosmetic Composition for Coloring Hair Comprising a Direct Hair Dye and a Carrier System Comprising Lipid Vesicles | 9650<br>9650  |      |
| 7704               | European Patent Convention                 | PENDING            | 11167650.8                     | 5/26/2011              |         | Cosmetic Composition for Coloring Hair Comprising a Direct Hair Dye and a Carrier System Comprising Lipid Vesicles   | 9620  |      |
| 7704               | Germany                                    | PENDING            | 1.0201E+11                     | 6/11/2010              |         | Cosmetic Composition for Coloring Hair Comprising a Direct Hair Dye and a Carrier System Comprising Lipid Vesicles   | 9620  |      |
| 7704               | United States                              | ISSUED             | 13/156417                      | 6/9/2011               | 8192505 | 6/5/2012   | Cosmetic Composition for Coloring Hair Comprising a Direct Hair Dye and a Carrier System Comprising Polysaccharides | 9620 |
| 7705               | European Patent Convention                 | PENDING            | 11167652.4                     | 5/26/2011              |         | Cosmetic Composition for Coloring Hair Comprising a Direct Hair Dye and a Carrier System Comprising Polysaccharides  | 9620  |      |
| 7705               | Germany                                    | PENDING            | 1.0201E+11                     | 6/11/2010              |         | Cosmetic Composition for Coloring Hair Comprising a Direct Hair Dye and a Carrier System Comprising Polysaccharides  | 9620  |      |
| 7705               | United States                              | ISSUED             | 13/156412                      | 6/9/2011               | 8152860 | 4/10/2012  | Cosmetic Composition for Coloring Hair Comprising a Direct Hair Dye and a Carrier System Comprising Polysaccharides | 9620 |
| 7706               | Brazil                                     | PENDING            | BR112013029771.9               | 2/24/2012              |         | Agent for Providing Positive Surface Charge on UV Protection Vesicles  | 9620  |      |

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| 7706    | Canada                     | PENDING  | 2840039         | 2/24/2012  | Charge Donor for a Vesicular Carrier System of a UV Protective Agent for the Skin or Hair                          | 9620 |
| 7706    | China P. R.                | PENDING  | 2.0128E+12      | 2/24/2012  | Agent for Providing Positive Surface Charge on UV Protection Vesicles  | 9620 |
| 7706    | European Patent Convention | PENDING  | 12705681        | 2/24/2012  | Agent for Providing Positive Surface Charge on UV Protection Vesicles  | 9620 |
| 7706    | Germany                    | PENDING  | 1.02011E+11     | 5/19/2011  | Agent for Providing Positive Surface Charge on UV Protection Vesicles  | 9620 |
| 7706    | Japan                      | PENDING  | 2014-510699     | 2/24/2012  | Agent for Providing Positive Surface Charge on UV Protection Vesicles  | 9620 |
| 7706    | Korea South                | PENDING  | 10-2013-7033721 | 2/24/2012  | Charge Provides for a Vesicular Carrier System of a UV Protection Composition for the Skin or Hair                 | 9620 |
| 7706    | Russian Federation         | PENDING  | 2013156355      | 2/24/2012  | Agent for Providing Positive Surface Charge on UV Protection Vesicles  | 9620 |
| 7706    | United States              | PENDING  | 14/118378       | 2/24/2012  | Agent for Providing Positive Surface Charge on UV Protection Vesicles  | 9620 |
| 07706D  | Japan                      | DOCKETED |                 |            | Agent for Providing Positive Surface Charge on UV Protection Vesicles  | 9620 |
| 077102P | China P. R.                | PENDING  | 2.0148E+12      | 2/5/2014   | Low Gloss, High Solids Polyurea Coatings   | 9630 |
| 077102P | European Patent Convention | PENDING  | 14708353.9      | 2/5/2014   | Low Gloss, High Solids Polyurea Coatings   | 9630 |
| 077102P | Japan                      | PENDING  | 2015-553938     | 2/5/2014   | Low Gloss, High Solids Polyurea Coatings   | 9630 |
| 077102P | Korea South                | PENDING  | 10-2015-7023993 | 2/5/2014   | Low Gloss, High Solids Polyurea Coatings   | 9630 |
| 077102P | United States              | PENDING  | 14/171852       | 2/4/2014   | Delay Action Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing Blowing Agents | 9650 |
| 077112P | Canada                     | PENDING  | 2830692         | 10/22/2013 | Delay Action Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing Blowing Agents | 9650 |
| 077112P | China P. R.                | PENDING  | 201310506715X   | 10/24/2013 | Delay Action Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing Blowing Agents | 9650 |
| 077112P | European Patent Convention | PENDING  | 13005061        | 10/23/2013 | Delay Action Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing Blowing Agents | 9650 |





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|-----------|----------------------------|---------|-----------------|------------|-------------|-----------|---|------|
| 077232P   | China P. R.                | PENDING | 2013/07/01579X  | 12/18/2013 |             |           | Epoxy Resin Compositions Using Solvated Solids                | 9630 |
| 077232P   | European Patent Convention | PENDING | 13005821.7      | 12/13/2013 |             |           | Epoxy Resin Compositions Using Solvated Solids                | 9630 |
| 077232P   | India                      | PENDING | 5853/CHE/2013   | 12/16/2013 |             |           | Epoxy Resin Compositions Using Solvated Solids                | 9630 |
| 077232P   | Korea South                | PENDING | 10-2013-0158611 | 12/18/2013 |             |           | Epoxy Resin Compositions Using Solvated Solids                | 9630 |
| 077232P   | United States              | ISSUED  | 14/041139       | 9/30/2013  | 9309381     | 4/12/2016 | Epoxy Resin Compositions Using Solvated Solids                | 9630 |
| 077232PD  | Japan                      | PENDING | 2015-014519     | 12/18/2013 |             |           | Epoxy Resin Compositions Using Solvated Solids                | 9630 |
| 077232PD  | Korea South                | PENDING | 10-2015-0166667 | 12/18/2013 |             |           | Epoxy Resin Compositions Using Solvated Solids                | 9630 |
| 077232PD2 | Japan                      | PENDING | 2015-177442     | 12/18/2013 |             |           | Epoxy Resin Compositions Using Solvated Solids                | 9630 |
| 7728      | Canada                     | ISSUED  | 2534551         | 8/4/2004   | 2534551     | 4/24/2012 | Cosmetic Composition Promoting Oxygen Transport Into the Skin | 9620 |
| 7728      | France                     | ISSUED  | 4766408.1       | 8/4/2004   | 1673068     | 12/2/2009 | Cosmetic Composition Promoting Oxygen Transport Into the Skin | 9620 |
| 7728      | Germany                    | ISSUED  | 4766408.1       | 8/4/2004   | 5.02004E+11 | 12/2/2009 | Cosmetic Composition Promoting Oxygen Transport Into the Skin | 9620 |
| 7728      | Great Britain              | ISSUED  | 4766408.1       | 8/4/2004   | 1673068     | 12/2/2009 | Cosmetic Composition Promoting Oxygen Transport Into the Skin | 9620 |
| 7728      | Poland                     | ISSUED  | 4766408.1       | 8/4/2004   | 1673068     | 12/2/2009 | Cosmetic Composition Promoting Oxygen Transport Into the Skin | 9620 |
| 7728      | South Africa               | ISSUED  | 2006/01179      | 8/4/2004   | 2006/01179  | 4/25/2007 | Cosmetic Composition Promoting Oxygen Transport Into the Skin | 9620 |
| 7728      | Spain                      | ISSUED  | 4766408.1       | 8/4/2004   | 1673068     | 12/2/2009 | Combined Cosmetic or Therapeutic Preparation                  | 9620 |
| 7729      | France                     | ISSUED  | 4818411.3       | 11/4/2004  | 1686951     | 3/2/2011  | Combined Cosmetic or Therapeutic Preparation                  | 9620 |
| 7729      | Germany                    | ISSUED  | 4818411         | 11/4/2004  | 5.02004E+11 | 3/2/2011  | Combined Cosmetic or Therapeutic Preparation                  | 9620 |
| 7729      | Great Britain              | ISSUED  | 4818411         | 11/4/2004  | 1686951     | 3/2/2011  | Combined Cosmetic or Therapeutic Preparation                  | 9620 |
| 7729      | Spain                      | ISSUED  | 4818411.3       | 11/4/2004  | 1686951     | 3/2/2011  | Combined Cosmetic or Therapeutic Preparation                  | 9620 |
| 7729      | Switzerland                | ISSUED  | 4818411         | 11/4/2004  | 1686951     | 3/2/2011  | Combined Cosmetic or Therapeutic Preparation                  | 9620 |
| 7733      | France                     | ISSUED  | 98903005        | 1/14/1998  | 1006985     | 4/17/2002 | Aqueous Composition Comprising Biotin-Containing Liposomes    | 9620 |

# Blewing Agents

|          |                            |         |                   |           |            |           |   |      |
|----------|----------------------------|---------|-------------------|-----------|------------|-----------|---|------|
| 7733     | Germany                    | ISSUED  | 98903005.1        | 1/14/1998 | 69804971.3 | 4/17/2002 | Aqueous Composition Comprising Biotin-Containing Liposomes            | 9620 |
| 7733     | Great Britain              | ISSUED  | 98903005          | 1/14/1998 | 1006985    | 4/17/2002 | Aqueous Composition Comprising Biotin-Containing Liposomes            | 9620 |
| 7740     | European Patent Convention | PENDING | 10705841.4        | 2/12/2010 |            |           | Cationic Carrier System Composed of Positively charged Lipid Vesicles | 9620 |
| 7747     | European Patent Convention | PENDING | 10156933.3        | 3/18/2010 |            |           | Cosmetic Composition for Skin Smoothing                               | 9620 |
| 7747     | Germany                    | PENDING | 1.02009E+11       | 3/20/2009 |            |           | Cosmetic Composition for Skin Smoothing                               | 9620 |
| 7748     | European Patent Convention | PENDING | 10174210.4        | 8/26/2010 |            |           | Cosmetic Composition for Treatment of Cellulite                       | 9620 |
| 7748     | Germany                    | PENDING | 1.02009E+11       | 8/28/2009 |            |           | Cosmetic Composition for Treatment of Cellulite                       | 9620 |
| 077542P  | European Patent Convention | PENDING | 14723608.7        | 4/1/2014  |            |           | Compositions of Delivery Systems and Lupine with Physical Stability   | 9620 |
| 077552ZP | Canada                     | PENDING | 2904105           | 4/1/2014  |            |           | Compositions of Delivery Systems for Personal Care Products           | 9620 |
| 077552ZP | China P. R.                | PENDING | 2.0148E+12        | 4/1/2014  |            |           | Compositions of Delivery Systems for Personal Care Products           | 9620 |
| 077552ZP | European Patent Convention | PENDING | 14723234.2        | 4/1/2014  |            |           | Compositions of Delivery Systems for Personal Care Products           | 9620 |
| 077552ZP | Japan                      | PENDING | 2016-506364       | 4/1/2014  |            |           | Compositions of Delivery Systems for Personal Care Products           | 9620 |
| 077552ZP | Korea South                | PENDING | 10-2015-7031296   | 4/1/2014  |            |           | Compositions of Delivery Systems for Personal Care Products           | 9620 |
| 077552ZP | United States              | PENDING | 14/781076         | 4/1/2014  |            |           | Compositions of Delivery Systems for Personal Care Products           | 9620 |
| 077762P  | Patent Cooperation Treaty  | PENDING | PCT/US2016/023668 | 3/23/2016 |            |           | Epoxy Systems Having Improved Fracture Toughness                      | 9630 |
| 077762P  | United States              | PENDING | 15/077071         | 3/22/2016 |            |           | EPOXY SYSTEMS HAVING IMPROVED FRACTURE TOUGHNESS                      | 9630 |
| 7789     | China P. R.                | PENDING | 2.0148E+11        | 9/30/2014 |            |           | Epoxy Liquid Curing Agent Compositions                                | 9630 |

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|---------|----------------------------|----------|-------------------|------------|---|------|
| 7789    | European Patent Convention | PENDING  | 14790397.5        | 9/30/2014  | Epoxy Liquid Curing Agent Compositions                                      | 9630 |
| 7789    | India                      | PENDING  | 2.01647E+11       | 9/30/2014  | Epoxy Liquid Curing Agent Compositions                                      | 9630 |
| 7789    | Japan                      | PENDING  | UNKNOWN           | 9/30/2014  | Epoxy Liquid Curing Agent Compositions                                      | 9630 |
| 7789    | Korea South                | PENDING  | 10-2016-7010985   | 9/30/2014  | Epoxy Liquid Curing Agent Compositions                                      | 9630 |
| 7789    | Patent Cooperation Treaty  | PENDING  | PCT/US14/58156    | 9/30/2014  | Epoxy Liquid Curing Agent Compositions                                      | 9630 |
| 7789    | United States              | PENDING  | 14/041927         | 9/30/2013  | Epoxy Liquid Curing Agent Compositions                                      | 9630 |
| 07795ZP | Brazil                     | DOCKETED |                   |            | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07795ZP | Canada                     | DOCKETED |                   |            | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07795ZP | China P. R.                | DOCKETED |                   |            | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07795ZP | European Patent Convention | DOCKETED |                   |            | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07795ZP | Japan                      | DOCKETED |                   |            | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07795ZP | Korea South                | DOCKETED |                   |            | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07795ZP | Mexico                     | DOCKETED |                   |            | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07795ZP | Patent Cooperation Treaty  | PENDING  | PCT/US14/71453    | 12/19/2014 | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07795ZP | United States              | PENDING  | 14/576308         | 12/19/2014 | New Non-Emissive Amine Composition For Improved System Shelf Life Stability | 9650 |
| 07837ZP | Patent Cooperation Treaty  | PENDING  | PCT/US2015/040257 | 7/14/2015  | Epoxide-Based Composition   | 9630 |

|          |                         |         |                   |            |   |      |
|----------|-------------------------|---------|-------------------|------------|---|------|
| 078372P  | United States<br>Patent | PENDING | 14/797378         | 7/13/2015  | Epoxide-Based Composition   | 9630 |
| 078462P  | Cooperation<br>Treaty   | PENDING | PCT/US2015/049655 | 9/11/2015  | Low Emissions Polyurethane Foam Made with<br>Isocyanate Reactive Amine Catalyst                 | 9650 |
| 078462P  | United States<br>Patent | PENDING | 14/851441         | 9/11/2015  | Low Emissions Polyurethane Foam Made with<br>Isocyanate Reactive Amine Catalyst                 | 9650 |
| 078472P  | Cooperation<br>Treaty   | PENDING | PCT/US2015/051405 | 9/22/2015  | Ketimines of Benzylated Polyamines as Curing Agents   | 9630 |
| 078472P  | United States<br>Patent | PENDING | 14/861154         | 9/22/2015  | Ketimines of Benzylated Polyamines as Curing Agents   | 9630 |
| 078582P  | Cooperation<br>Treaty   | PENDING | PCT/US2015/055281 | 10/13/2015 | Polyurethane Gelling Catalysts from Activated Sulfur<br>Containing Compounds                    | 9650 |
| 078582P  | United States<br>Patent | PENDING | 14/881544         | 10/13/2015 | Polyurethane Catalysts from Sulfur Based Salts  | 9650 |
| 078582P2 | Cooperation<br>Treaty   | PENDING | PCT/US2016/027319 | 4/13/2016  | Polyurethane Catalysts from Sulfur Based Salts  | 9650 |
| 078582P2 | United States<br>Patent | PENDING | 15/097734         | 4/13/2016  | Polyurethane Catalysts from Sulfur Based Salts  | 9650 |
| 078722P  | Cooperation<br>Treaty   | PENDING | PCT/US2015/058970 | 11/4/2015  | Amidopolyamines with Enhanced Gel-Time for Elevated<br>Temperature Applications                 | 9630 |
| 078722P  | United States<br>Patent | PENDING | 14/932095         | 11/4/2015  | Amidopolyamines with Enhanced Gel-Time for Elevated<br>Temperature Applications                 | 9630 |
| 7893     | Cooperation<br>Treaty   | PENDING | PCT/CN2015/081524 | 6/16/2015  | Aldehyde Scavengers for Polyurethane Foams  | 9650 |
| 07892P   | Cooperation<br>Treaty   | PENDING | PCT/US16/26649    | 4/8/2016   | DELAYED ACTION GELLING CATALYST COMPOSITIONS<br>AND METHODS FOR MAKING POLYURETHANE<br>POLYMERS | 9650 |
| 07892P   | United States           | PENDING | 15/093838         | 4/8/2016   | DELAYED ACTION GELLING CATALYST COMPOSITIONS<br>AND METHODS FOR MAKING POLYURETHANE             | 9650 |

|        |                    |          |                   |            |  |      |
|--------|--------------------|----------|-------------------|------------|--|------|
| 07905Z | United States      | PENDING  | 62/169046         | 6/1/2015   | Reactive Amine Catalysts for Polyurethane Applications   | 9650 |
|        | Patent             |          |                   |            |  |      |
| 7916   | Cooperation Treaty | PENDING  | PCT/CN2015/081809 | 6/18/2015  | Trimerization Catalysts from Sterically Hindered Salts and Tertiary Amines Having Isocyanate Reactive Groups | 9650 |
| 07917Z | United States      | PENDING  | 62/180113         | 6/16/2015  | Aldehyde Scavengers Mixtures for Polyurethane Foams  | 9650 |
|        |                    |          |                   |            | Composition for Penetrating Sugar Based Delivery System  | 9620 |
| 07924Z | United States      | PENDING  | 62/203142         | 8/10/2015  | Amidoamines and Polyamides: Aldehyde Scavengers for Polyurethane Foams                                       | 9650 |
| 07932Z | United States      | PENDING  | 62/253209         | 11/10/2015 | Substituted Phenol Aldehyde Scavengers for Polyurethane Foams  | 9650 |
| 07933Z | United States      | PENDING  | 62/253232         | 11/10/2015 | Nitrogen-Containing Heterocyclic Epoxy Curing Agents, Compositions and Methods                               | 9630 |
| 07942Z | United States      | PENDING  | 62/256262         | 11/17/2015 | AMIDOAMINE AND POLYAMIDE CURING AGENTS, COMPOSITIONS, AND METHODS  | 9630 |
| 07948Z | United States      | PENDING  | 62/290015         | 2/2/2016   | POLYCARBAMIDE RESINS FOR METAL COATING APPLICATIONS  | 9630 |
| 07949Z | United States      | PENDING  | 62/294550         | 2/12/2016  | BENZYLATED MANNICH BASE CURING AGENTS, COMPOSITIONS, AND METHODS   | 9630 |
| 07956Z | United States      | PENDING  | 62/298019         | 2/22/2016  | ANHYDRIDE ACCELERATORS FOR CURING BIO-BASED EPOXY RESINS   | 9630 |
| 07959Z | United States      | DOCKETED |                   |            |  |      |
|        | Patent             |          |                   |            |  |      |
| 7962   | Cooperation Treaty | PENDING  | PCT/CN2016/079566 | 4/18/2016  | Epoxy Modified Cement Composition  | 9630 |
| 07964Z | United States      | PENDING  | 62/321363         | 4/12/2016  | SILOXANE-OXYALKYLENE COPOLYMER SURFACTANT COMPOSITIONS   | 9650 |
| 7966   | China P.R.         | DOCKETED |                   |            | ROOM TEMPERATURE IONIC LIQUID AS FAST EPOXY CURING AGENT   | 9630 |

| Docket Count | Country Name               | Status Description | Application Number | Application Date | Patent Number  | Grant Date | Current Owner Name                      | Total |
|--------------|----------------------------|--------------------|--------------------|------------------|----------------|------------|---|-------|
| 06970        | United States              | ISSUED             | 10/424119          | 4/25/2003        | 7125825        | 10/24/2006 | APCI & AKZO NOBEL SURFACE CHEMISTRY LLC | 1     |
| 074302P      | Brazil                     | PENDING            | 1120120359210      | 4/4/2011         |                |            | APCI & LANDEC                           | 1     |
|              | China P.R.                 | PENDING            | 201180018471.X     | 4/4/2011         |                |            | APCI & LANDEC                           | 1     |
|              | France                     | ISSUED             | 11715118.3         | 4/4/2011         | 2558510        | 5/20/2015  | APCI & LANDEC                           | 1     |
|              | Germany                    | ISSUED             | 11715118.3         | 4/4/2011         | 602011016588.7 | 5/20/2015  | APCI & LANDEC                           | 1     |
|              | Great Britain              | ISSUED             | 11715118.3         | 4/4/2011         | 2558510        | 5/20/2015  | APCI & LANDEC                           | 1     |
|              | Japan                      | ISSUED             | 2013-504934        | 4/4/2011         | 5778757        | 7/17/2015  | APCI & LANDEC                           | 1     |
|              | Korea South                | ISSUED             | 10-2012-7029766    | 4/4/2011         | 10-1542548     | 7/31/2015  | APCI & LANDEC                           | 1     |
|              | Russian Federation         | ISSUED             | 2012148041         | 4/4/2011         | 2523795        | 7/27/2014  | APCI & LANDEC                           | 1     |
|              | United States              | PENDING            | 13/035363          | 2/25/2011        |                |            | APCI & LANDEC                           | 1     |
| 074302PD     | Japan                      | PENDING            | 2015-047007        | 4/4/2011         |                |            | APCI & LANDEC                           | 1     |
|              | Korea South                | ISSUED             | 10-2014-7018850    | 4/4/2011         | 10-1569436     | 11/10/2015 | APCI & LANDEC                           | 1     |
| 074302PD2    | Korea South                | PENDING            | 10-2014-7035677    | 4/4/2011         |                |            | APCI & LANDEC                           | 1     |
| 075452P      | Brazil                     | PENDING            | BR112014002351.4   | 8/3/2012         |                |            | APCI & LANDEC                           | 1     |
|              | China P.R.                 | ISSUED             | 2012800386307      | 8/3/2012         | 2012800386307  | 2/3/2016   | APCI & LANDEC                           | 1     |
|              | France                     | ISSUED             | 12762693.5         | 8/3/2012         | 2739659        | 6/17/2015  | APCI & LANDEC                           | 1     |
|              | Germany                    | ISSUED             | 12762693.5         | 8/3/2012         | 602012008113.9 | 6/17/2015  | APCI & LANDEC                           | 1     |
|              | Great Britain              | ISSUED             | 12762693.5         | 8/3/2012         | 2739659        | 6/17/2015  | APCI & LANDEC                           | 1     |
|              | Japan                      | PENDING            | 2014-524107        | 8/3/2012         |                |            | APCI & LANDEC                           | 1     |
|              | Russian Federation         | PENDING            | 2014107898         | 8/3/2012         |                |            | APCI & LANDEC                           | 1     |
|              | United States              | PENDING            | 13/566056          | 8/3/2012         |                |            | APCI & LANDEC                           | 1     |
| 075452PD     | China P.R.                 | PENDING            | 201610007247.5     | 8/3/2012         |                |            | APCI & LANDEC                           | 1     |
|              | Japan                      | DOCKETED           |                    |                  |                |            | APCI & LANDEC                           | 1     |
|              | Korea South                | PENDING            | 10-2016-7008771    | 8/3/2012         |                |            | APCI & LANDEC                           | 1     |
| 07731        | Austria                    | ISSUED             | 06763913.8         | 6/28/2006        | 1899715        | 4/29/2009  | ROVI GmbH AND GEMATRIA TEST LAB GMBH    | 1     |
|              | European Patent Convention | ISSUED             | 06763913           | 6/28/2006        | 1899715        | 4/29/2009  | ROVI GmbH AND GEMATRIA TEST LAB GMBH    | 1     |
|              | France                     | ISSUED             | 06763913.8         | 6/28/2006        | 1899715        | 4/29/2009  | ROVI GmbH AND GEMATRIA TEST LAB GMBH    | 1     |
|              | Germany                    | ISSUED             | 06763913.8         | 6/28/2006        | 502006003621.5 | 4/29/2009  | ROVI GmbH AND GEMATRIA TEST LAB GMBH    | 1     |
|              | Great Britain              | ISSUED             | 06763913.8         | 6/28/2006        | 1899715        | 4/29/2009  | ROVI GmbH AND GEMATRIA TEST LAB GMBH    | 1     |

|       |             |        |                 |           |            |           |   |   |
|-------|-------------|--------|-----------------|-----------|------------|-----------|---|---|
| 07731 | Ireland     | ISSUED | 06763913.8      | 6/28/2006 | 1899715    | 4/29/2009 | ROVI Gmbh AND GEMATRIA TEST LAB GMBH        | 1 |
|       | Italy       | ISSUED | 502009901751129 | 6/28/2006 | 1899715    | 4/29/2009 | ROVI Gmbh AND GEMATRIA TEST LAB GMBH        | 1 |
|       | Poland      | ISSUED | 06763913.8      | 6/28/2006 | 1899715    | 4/29/2009 | ROVI Gmbh AND GEMATRIA TEST LAB GMBH        | 1 |
|       | Spain       | ISSUED | 06763913.8      | 6/28/2006 | 1899715    | 4/29/2009 | ROVI Gmbh AND GEMATRIA TEST LAB GMBH        | 1 |
|       | Switzerland | ISSUED | 06763913.8      | 6/28/2006 | 1899715    | 4/29/2009 | ROVI Gmbh AND GEMATRIA TEST LAB GMBH        | 1 |
| 07734 | Germany     | ISSUED | 99917541.7      | 4/15/1999 | 69937679.3 | 12/5/2007 | ROVI Gmbh AND UNIVERA PHARMACEUTICALS, INC. | 1 |

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