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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5117733

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AIR PRODUCTS AND CHEMICALS, INC.	01/03/2017

RECEIVING PARTY DATA

Name:	EVONIK DEGUSSA GMBH
Street Address:	RELLINGHAUSER STRASSE 1-11
City:	ESSEN
State/Country:	GERMANY
Postal Code:	45128

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15647009

CORRESPONDENCE DATA

Fax Number: (973)929-8839

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.

Phone: 9739298847

Email: ipm-na@evonik.com

Correspondent Name: EVONIK CORPORATION Address Line 1: 299 JEFFERSON ROAD

Address Line 4: PARSIPPANY, NEW JERSEY 07054

ATTORNEY DOCKET NUMBER:	2016P14010 US01
NAME OF SUBMITTER:	JESSICA THOMAS
SIGNATURE:	/jt/
DATE SIGNED:	08/30/2018

Total Attachments: 60

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PATENT ASSIGNMENT

This PATENT ASSIGNMENT (this "<u>Assignment</u>"), dated as of January 3, 2017 (the "<u>Effective Date</u>"), is by and between Air Products and Chemicals, Inc., a Delaware corporation ("<u>Assignor</u>"), and Evonik Degussa GmbH, a German Gesellschaft mit beschränkter Haftung ("<u>Assignee</u>"), (each a "<u>Party</u>" and collectively, the "<u>Parties</u>"). 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 "<u>Purchase Agreement</u>"); 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 <u>Schedule A</u> hereto (collectively, the "<u>Assigned Patents</u>"), 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. <u>Conveyance</u>. 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 <u>Schedule A</u> 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. <u>Disclaimer of Representations and Warranties</u>. 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. <u>Further Assurances</u>. 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. <u>No Conflict</u>. 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. <u>Successors and Assigns</u>. 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. <u>Counterparts</u>. 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. <u>Title and Headings</u>. 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. <u>Governing Law</u>. 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 Asignee 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. <u>Amendment</u>. 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:

0 —
AIR PRODUCTS AND CHEMICALS, INC
By: Mas AMAMA
Name: M. Seott Crocco
Title: Executive Vice President and Chief
Financial Officer
Acknowledged and Accepted:
3
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: TOTAL WOTT MEIER
Title: Legal Counsel SIGA

Based on power of attorney dated

[Signature Page to Patent Assignment]

SCHEDULE A TO PATENT ASSIGNMENT

PATENTS, PATENT APPLICATIONS AND INVENTION DISCLOSURES See attached.

Jurisdiction	Title	11	Issue No. (Issue Date)	Record Owner

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9030	ADHESION FROMIOTERS FOR FEASTISOES	3/11/2000	0040000	12/13/1334	00/330003	וטטטבט	Officer States	1,40
9650	ADJUSTICAL PROMOTERS FOR DIACTICALE	10/22/2003	ZL00133996.6	9/27/1996	133996.6	ISSUED	China P.R.	05431D
	COMPOSITIONS FOR THE PRODUCTION OF							
9650	POLYURETHANES	8/7/2000	197949	9/23/1996	964243	ISSUED	Mexico	5431
	COMPOSITIONS FOR THE PRODUCTION OF							
	AMINOPROPYLBIS(AMINOETHYL)ETHER							
9650	POLYURETHANES	5/26/1999	215953	9/24/1996	96-41969	ISSUED	Korea South	5431
	COMPOSITIONS FOR THE PRODUCTION OF							
	AMINOPROPYLBIS(AMINOETHYL)ETHER							
9650	POLYURETHANES	8/20/1999	2967578	9/26/1996	254315/1996	ISSUED	Japan	5431
	COMPOSITIONS FOR THE PRODUCTION OF							
	AMINOPROPYLBIS(AMINOETHYL)ETHER							
9650	POLYURETHANES	4/12/2000	765892	9/25/1996	5.02001E+14	ISSUED	Italy	5431
	COMPOSITIONS FOR THE PRODUCTION OF							
	AMINOPROPYLBIS(AMINOETHYL)ETHER							
9650	POLYURETHANES	4/12/2000	765892	9/25/1996	96115409.3	ISSUED	Great Britain	5431
	COMPOSITIONS FOR THE PRODUCTION OF							
	AMINOPROPYLBIS(AMINOETHYL)ETHER							
9650	POLYURETHANES	4/12/2000	69607711.6	9/25/1996	96115409.3	ISSUED	Germany	5431
	COMPOSITIONS FOR THE PRODUCT ION OF							
	AMINOPROPYLBIS(AMINOETHYL)ETHE R							
9650	POLYURETHANES	4/12/2000	765892	9/25/1996	96115409.3	ISSUED	France	5431
	COMPOSITIONS FOR THE PRODUCTION OF							
	AMINOPROPYLBIS(AMINOETHYL)ETHER							
9650	POLYURETHANES	6/21/2005	PI9603847-0	9/23/1996	PI9603847-0	ISSUED	Brazil	5431
	COMPOSITIONS FOR THE PRODUCTION OF							
	AMINOPROPYLBIS(AMINOETHYL)ETHER							
9650	THEIR THERMODYNAMIC ISOMERIC FORM	9/19/2000	6121493	3/30/1993	08/040311	ISSUED	United States	4881
	ISOMERIZATION OF CYCLOHEXYLAMINES TO PRODUCE							
9650	THEIR RING HYDROGENATED COUNTERPARTS	10/31/2000	6140540	4/6/1993	08/043646	ISSUED	United States	4880
	HYDROGENATION OF AROMATIC AMINES TO PRODUCE							
EntityCode	Title	Grant Date	Patent Number		Application Number	<u>Status</u>	Country	Number
				Application				Case

5698	5698	5698	5688	5688	5688	5688	5688	5688	5688	5688	5688	5688	05508P2 5655
France	China P.R.	Brazil	United States	Mexico	Korea South	Japan	Italy	Great Britain	Germany	France	China P.R.	Brazil	2 United States United States
ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED ISSUED
98107858.7	98107774.9	P19801534-6	08/861138	984006	98-17776	138270/1998	5.02005E+14	98109233.1	98109233.1	98109233.1	98115094.2	PI9801660-1	08/919023 08/960909
4/29/1998	5/4/1998	4/30/1998	5/21/1997	5/20/1998	5/18/1998	5/20/1998	5/20/1998	5/20/1998	5/20/1998	5/20/1998	5/21/1998	5/19/1998	8/27/1997 10/30/1997
877042	ZL98107774.9	PI9801534-6	5859079	196667	255721	3273134	879837	879837	69824990.9	879837	ZL98115094.2	PI9801660-1	5807903 5869653
9/22/2004	6/1/2005	12/6/2005	1/12/1999	5/26/2000	2/16/2000	1/25/2002	7/14/2004	7/14/2004	7/14/2004	7/14/2004	3/26/2003	4/25/2006	9/15/1998 2/9/1999
REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POL YURETHANE FOAM PERFORMANCE	REACTIVE CATALYST COMPOSITIONS FOR IMPROVING WATER BLOWN POLYURETHANE FOAM PERFORMANCE	WATER BLOWN POLYURETHANE FOAM PERFORMANCE	POLYURETHANE CATALYST COMPOSITIONS FOR IMPROVING FOAM PERFORMANCE	POLYURETHANE CATALYST COMPOSIT IONS FOR IMPROVING FOAM PERFOR MANCE	METHOD FOR PREPARING FLEXIBLE POLYURETHANE FOAMS HYDROGENATION OF NITRILES TO PRODUCE AMINES								
9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650 9650

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

05914D	05914D	05914D	05914D	5914	5914	5914	5914	5914	5914	5914	05900P2	05900P	5900	05873D
Germany	France	Denmark	Austria	Taiwan	Spain	Netherlands	Italy	Great Britain	Germany	France	United States	United States	United States	Spain
ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED
12000162.3	12000162.3	12000162.3	12000162.3	90100043	1100222.7	1100222.7	5.02013E+14	1100222.7	1100222.7	1100222.7	11/048576	09/975135	09/304607	4028051.3
1/2/2001	1/2/2001	1/2/2001	1/2/2001	1/2/2001	1/2/2001	1/2/2001	1/2/2001	1/2/2001	1/2/2001	1/2/2001	2/1/2005	10/11/2001	5/4/1999	6/6/2000
60147957.2	2441744	2441744	E609862	188646	1115035	1115035	1115035	1115035	60147183	1115035	7348300	6864395	6313182	1518872
5/1/2013	5/1/2013	5/1/2013	5/1/2013	10/11/2003	10/3/2012	10/3/2012	10/3/2012	10/3/2012	10/3/2012	10/3/2012	3/25/2008	3/8/2005	11/6/2001	8/31/2011
Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts And Their Use In Photoresist Developers	Acetylenic Diol Ethylene Oxide/Propylene Oxide Adducts and Processes for their Manufacture	ACETYLENIC DIOL ETHYLENE OXIDE/PROPYLENE OXIDE ADDUCTS AND PROCESSES FOR THEIR MANUFACTURE	ACETYLENIC DIOL ETHYLENE OXIDE/PROPYLENE OXIDE ADDUCTS AND PROCESSES FOR THEIR MANUFACTURE	Rigid Foam Performance Polyurethane Catalyst Compositions for Improving Rigid Foam Performance
9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9650

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

6077	6077	6077	6077	6077	6077	6061	5983	5983	5983	5983	5983	5983	5983	5983	5983
Italy	Great Britain	Germany	France	China P.R.	Brazil	United States	United States	Switzerland	Netherlands	Japan	Italy	Great Britain	Germany	China P.R.	Brazil
ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED
5.02005E+14	2007930.7	2007930.7	2007930.7	2105538.6	PI0201089-5	09/633664	09/561071	1109469.5	1109469.5	2001-131284	5.02005E+14	1109469.5	1109469.5	1117663.6	PI0101552-4
4/9/2002	4/9/2002	4/9/2002	4/9/2002	4/11/2002	4/5/2002	8/7/2000	4/28/2000	4/24/2001	4/24/2001	4/27/2001	4/24/2001	4/24/2001	4/24/2001	4/28/2001	4/23/2001
1249461	1249461	60201456.5	1249461	ZL02105538.6	Pl0201089-5	H002233	6184416	1149629	1149629	3954810	1149629	1149629	60103695.6	ZL01117663.6	PI0101552-4
10/6/2004	10/6/2004	10/6/2004	10/6/2004	12/21/2005	6/14/2011	11/3/2009	2/6/2001	6/9/2004	6/9/2004	5/11/2007	6/9/2004	6/9/2004	6/9/2004	6/9/2004	4/8/2014
Acid-blocked Amine Catalysts for the Production of Polyurethanes	Acid-biocked Affiliae Catalysts for the Production of Polyurethanes	Acid-Blocked Amine Catalysts for the Production of Polyurethanes Acid Blocked Amino Catalysts for the Production of	Acid-Blocked Amine Catalysts for the Production of Polyrrethanes	Acid-biocked Amine Catalysts for the Production of Polyurethanes	Acid-biocked Amine Catalysts for the Production of Polyurethanes	Catalysts which stabilize hydrofluorocarbon blowing agent in polyurethane foam compositions	Lithium Aluminate as the Catalyst Support for Hydrogenation of Aromatic Amines	Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for	Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for	Lithium Aluminate as the Catalyst Support for Hydrogenation of Aromatic Amines	Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for	Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for	Hydrogenation of Aromatic Amines Using Lithium Aluminate as the Catalyst Support for	Lithium Aluminate as the Catalyst Support for Hydrogenation of Aromatic Amines	Hydrogenation of Aromatic Amines
9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650

6195 6195 6245	6195 6195 6195	6195	6195 6195	06125P 6195	6092	6092	6092	06077D	6077	6077	6077	6077
Spain United States Brazil	Japan Korea South Mexico	Great Britain Italy	China P.R. France	United States Brazil	United States	Japan	China P.R.	United States	United States	Mexico	Korea South	Japan
ISSUED ISSUED PENDING	ISSUED ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED
2021478.9 09/968204 PI-0300363-9	2002-285311 10-2002-0059680 PA/a/2002/009609	2021478.9 2021478.9 5.02008E+14	2144091.3 2021478.9	10/062924 PI0203936-2	09/703443	2001-333609	1137256.7	10/174383	09/832502	PA/a/2002/003535	10-2002-0019145	2002-107721
9/25/2002 10/1/2001 1/27/2003	9/30/2002 10/1/2002 9/30/2002	9/25/2002 9/25/2002 9/25/2002	9/30/2002 9/25/2002	1/31/2002 9/26/2002	11/1/2000	10/31/2001	11/1/2001	6/18/2002	4/11/2001	4/5/2002	4/9/2002	4/10/2002
1297876 6762208	3978110 481024 228782	1297876	2144091.3 1297876 60218706 6	6800717 PI0203936-2	6462164	3509800	ZL01137256.7	6525107	6432864	228765	479534	3992226
3/14/2007 7/13/2004	6/29/2007 3/25/2005 6/29/2005	3/14/2007 3/14/2007	12/9/2009 3/14/2007	10/5/2004 9/18/2012	10/8/2002	1/9/2004	3/2/2005	2/25/2003	8/13/2002	6/28/2005	3/21/2005	8/3/2007
Alkane Diol Foam Controlling Agents Alkane Diol Foam Controlling Agents Glycidyl Ether-Capped Acetylenic Diol Ethoxylate	Alkane Diol Foam Controlling Agents Alkane Diol Foam Controlling Agents Alkane Diol Foam Controlling Agents	Alkane Diol Foam Controlling Agents Alkane Diol Foam Controlling Agents	Alkane Diol Foam Controlling Agents Alkane Diol Foam Controlling Agents	Resin and Uses Thereof Alkane Diol Foam Controlling Agents	ACCELERATOR FOR ACID ANHYDRIDE CURATIVES IN ONE-COMPONENT EPOXY COMPOSITIONS Acid Catalyzed Copolymerization of Water and Epoxy	2-PHENYLIMIDAZOLE-PHOSPHORIC ACID SALT AS AN ACCELERATOR FOR ACID ANHYDRIDE CURATIVES IN ONE-COMPONENT EPOXY COMPOSITIONS 2-PHENYLIMIDAZOLE-PHOSPHORIC ACID SALT AS AN	2-PHENYLIMIDAZOLE-PHOSPHORIC ACID SALT AS AN ACCELERATOR FOR ACID ANHYDRIDE CURATIVES IN ONE-COMPONENT EPOXY COMPOSITIONS	Acid-Blocked Amine Catalysts for the Production of Polyurethanes	Acid-Blocked Amine Catalysts for the Production of Polyurethanes	Acid-Blocked Amine Catalysts for the Production of Polyurethanes	Acid-Blocked Amine Catalysts for the Production of Polyurethanes	Acid-Blocked Amine Catalysts for the Production of Polyurethanes
9620 9620 9620 9620	9620 9620 9620	9620 9620	9620 9620	9630 9620	9630	9630	9630	9650	9650	9650	9650	9650

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

Tertiary Amino Alkyl Amide Catalysts for Improving the Physical Properties of Polyurethane Foams	Tertiary Amino <i>t</i> Physical Properti	5/18/2004	6737446	1/3/2003	10/336555	ISSUED	United States	6305
Tertiary Amino Alkyl Amide Polyurethane Catalysts Derived from Long Chain Alkyl or Fatty Carboxylic Acids		7/13/2004	6762211	1/3/2003	10/336371	ISSUED	United States	6304
Acetylenic Diol Surfactant Solutions and Methods of Using Same	6	12/4/2006	655816	3/15/2006	10-2006-0023837	ISSUED	Korea South	06292PD
Acetylenic Diol Surfactant Solutions and Methods of Using Same	015	1/28/2015	2534979	8/7/2003	3017569.9	ISSUED	Spain	06292P
Acetylenic Diol Surfactant Solutions and Methods of Using Same	900	9/26/2006	630853	8/12/2003	10-2003-0055635	ISSUED	Korea South	06292P
Acetylenic Diol Surfactant Solutions and Methods of 2007 Using Same	2007	11/16/2007	4041037	8/12/2003	2003-292443	ISSUED	Japan	06292P
Acetylenic Diol Surfactant Solutions and Methods of Using Same	015	1/28/2015	1389745	8/7/2003	5.02015E+14	ISSUED	Italy	06292P
Acetylenic Diol Surfactant Solutions and Methods of Using Same	2015	1/28/2015	1389745	8/7/2003	3017569.9	ISSUED	Great Britain	06292P
Acetylenic Diol Surfactant Solutions and Methods of Using Same	2015	1/28/2015	60347273.7	8/7/2003	3017569.9	ISSUED	Germany	06292P
Acetylenic Diol Surfactant Solutions and Methods of Using Same	015	1/28/2015	1389745	8/7/2003	3017569.9	ISSUED	France	06292P
Acetylenic Diol Surfactant Solutions and Methods of Using Same	015	1/28/2015	1389745	8/7/2003	3017569.9	ISSUED	European Patent Convention	06292P
Acetylenic Diol Surfactant Solutions and Methods of Using Same	2003	11/4/2003	6641986	8/12/2002	10/218068	ISSUED	United States	6292
Acetylenic Diol Surfactant Solutions and Methods of Using Same	006	1/1/2006	246637	8/6/2003	92121573	ISSUED	Taiwan	6292
Hydrogenation of Methylenedianiline Homologs and 11/8/2005 Epoxy Resins Cured with Same	/2005	11/8,	6962964	2/6/2003	10/359450	ISSUED	United States	6291
Hydrogenation of Methylenedianiline Homologs and 7/26/2006 Epoxy Resins Cured with Same	/2006	7/26	607977	2/6/2004	10-2004-0007741	ISSUED	Korea South	6291
Hydrogenation of Methylenedianiline Homologs and 5/25/2007 Epoxy Resins Cured with Same	/2007	5/25	3962380	2/5/2004	2004-28875	ISSUED	Japan	6291

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

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

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

6514 6514 6514 6514 6514	6514 6514 6514	06513D 06513D2	06513D	6513	6513	6513	6513	6513	6513	6513	06483C	6483
Germany Japan Netherlands Switzerland United States	Belgium Brazil China P.R.	Japan Japan	China P.R.	United States	Switzerland	Netherlands	Germany	Canada	Brazil	Belgium	United States	United States
ISSUED ISSUED ISSUED ISSUED	ISSUED ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED
5018017.3 2005-242167 5018017.3 5018017.3 10/925105	5018017.3 PI0503430-2 2.0051E+11	2009-297696 2013-189210	2.0111E+11	10/848766	5010749.9	5010749.9	5010749.9	2507301	PI0501791-2	5010749.9	12/405266	11/002024
8/18/2005 8/24/2005 8/18/2005 8/18/2005 8/18/2005 8/24/2004	8/18/2005 8/18/2005 8/24/2005	5/13/2005 5/13/2005	5/19/2005	5/19/2004	5/18/2005	5/18/2005	5/18/2005	5/12/2005	5/13/2005	5/18/2005	3/17/2009	12/2/2004
6.02005E+11 4388000 1630155 1630155 6998507	1630155 PI0503430-2 2.0051E+11	5426362 5731603	2.0111E+11	7038088	1604972	1604972	6.02005E+11	2507301	PI0501791-2	1604972	7615584	7528183
3/16/2011 10/9/2009 3/16/2011 3/16/2011 2/14/2006	3/16/2011 6/2/2015 8/15/2007	12/6/2013 4/17/2015	4/22/2015	5/2/2006	8/10/2011	8/10/2011	8/10/2011	4/13/2010	5/13/2015	8/10/2011	11/10/2009	5/5/2009
Hydrogenation of Methylenedianiline Ring Hydrogenation Process of Methylenedianiline Hydrogenation of Methylenedianiline Hydrogenation of Methylenedianiline Hydrogenation of Methylenedianiline	Hydrogenation of Methylenedianiline Hydrogenation of Methylenedianiline Hydrogenation of Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline Hydrogenation of Highly Contaminated Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline	Hydrogenation of Highly Contaminated Methylenedianiline	Method of Preparation of a Water Based Epoxy Curing Agent	Agent Method Of Preparation Of A Water Based Epoxy Curing Agent
9650 9650 9650 9650 9650	9650 9650	9650 9650	9650	9650	9650	9650	9650	9650	9650	9650	9630	9630

6611 F	6611	6611	6611	06517PD (06517PC	06517P	06517P	06517P	06517P J	06517P	06517P (06517P (06517P	06517P (06517P	06514D (
France	China P.R.	Canada	Brazil	European Patent Convention	United States	United States	Mexico	Korea South	Japan	Italy	Great Britain	Germany	France	China P.R.	Brazil	China P.R.
ISSUED	ISSUED	ISSUED	PENDING	PENDING	ISSUED	ISSUED	ISSUED	ISSUED	PENDING	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED
5021711.6	2.0051E+11	2522156	PI0504298-4	14173716.3	13/547756	11/131179	PA/a/2005/005620	10-2005-0045036	2005-155555	5.02015E+14	5011237.4	5011237.4	5011237.4	2.0051E+11	PI0503158-3	2.0061E+11
10/5/2005	10/8/2005	10/3/2005	10/3/2005	5/24/2005	7/12/2012	5/18/2005	5/25/2005	5/27/2005	5/27/2005	5/24/2005	5/24/2005	5/24/2005	5/24/2005	5/27/2005	5/27/2005	8/2/2006
1657288	2.0051E+11	2522156			8618014	8258198	309367	695194		1600465	1600465	6.02005E+11	1600465	2.0051E+11	PI0503158-3	2.0061E+11
6/30/2010	8/21/2013	9/18/2012			12/31/2013	9/4/2012	5/7/2013	3/8/2007		7/16/2014	7/16/2014	7/16/2014	7/16/2014	10/24/2007	8/11/2015	10/27/2010
2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfoxides: New Surface Active Agents	2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfoxides: New Surface Active Agents	2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfoxides: New Surface Active Agents	2-Hydroxy-3-Alkoxypropyl Sulfides, Sulfones, and Sulfoxides: New Surface Active Agents	Fast Demold/Extended Cream Time Polyurethane Formulations	Formulations	Fast Demold/Extended Cream Time Polyurethane Formulations	Formulations	Formulations	Fast Demold/Extended Cream Time Polyurethane Formulations	Formulations	Formulations	Fast Demold/Extended Cream Time Polyurethane Formulations	Fast Demoid/Extended Cream Time Polyurethane Formulations	Fast Demoid/Extended Cream Time Polyuretnane Formulations	Formulations/Extended cream lime rolyurethane	Hydrogenation of Methylenedianiline
9620	9620	9620	9620	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650

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

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

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

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

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

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

06928P 06928P 06928P 06928P	06925Z2PD3 06928P	06925Z2PD2 06925Z2PD2	06925Z2PD	06925Z2PD	06925Z2PD	06925Z2PC	06925Z2P	06925Z2P	06925Z2P	06925Z2P	6897	06868D 6897
China P.R. France Germany Great Britain	European Patent Convention Brazil	European Patent Convention Japan	Japan	European Patent Convention	China P.R.	United States	United States	European Patent Convention	China P.R.	Brazil	United States	India China P.R.
ISSUED ISSUED ISSUED	DOCKETED PENDING	PENDING	ISSUED	PENDING	PENDING	PENDING	PENDING	PENDING	ISSUED	PENDING	ISSUED	PENDING ISSUED
200710110252.X 7010911.1 7010911.1 7010911.1	P10702764-8	11178616.6 2015-127639	2013-078355	10189923.5	2.0131E+11	15/046848	11/747261	7794820.6	2.0078E+11	PI10710562-2	11/485725	2804/CHE/2012 2.0071E+11 7012620 6
6/8/2007 6/1/2007 6/1/2007 6/1/2007	6/5/2007	5/11/2007 5/11/2007	5/11/2007	5/11/2007	5/11/2007	2/18/2016	5/11/2007	5/11/2007	5/11/2007	5/11/2007	7/13/2006	2/7/2008 7/13/2007
200710110252.X 1865013 6.02007E+11 1865013			5775111						2.0078E+11		8445555	2.0071E+11
12/14/2011 12/30/2015 12/30/2015 12/30/2015			7/10/2015						8/21/2013		5/21/2013	3/28/2012
Polyamide Curing Agent Compositions Polyamide Curing Agent Compositions Polyamide Curing Agent Compositions Polyamide Curing Agent Compositions	Personal Care Compositions Containing Functionalized Polymers Polyamide Curing Agent Compositions	Personal Care Compositions Containing Functionalized Polymers Personal Care Compositions Containing Functionalized Polymers	PERSONAL CARE COMPOSITIONS CONTAINING FUNCTIONALIZED POLYMERS\n	Personal Care Compositions Containing Functionalized Polymers	Stabilized Carbanions as Trimerization Catalysts	Alkylated Polyalkyleneamines and Uses Thereof Stabilized Carbanions as Trimerization Catalysts						
9630 9630 9630 9630	9620 9630	9620 9620	9620	9620	9620	9620	9620	9620	9620	9620	9650	9630 9650

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

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

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		New Amine Composition			4/24/2008	14003723.5	PENDING	Convention	06996D

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Tetraalkylammonium Carboxylate Salts as Trimerization Catalysts for Spray Foam Applications Impact Resistive Composite Materials and Methods for	Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability	Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability	Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability	Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability	Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability	Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability	Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability	Polyester Polyol-Containing Polyurethane Systems Having Improved Hydrolytic Stability	Process for Preparing Aminobenzoate Esters	Process for Preparing Aminobenzoate Esters	Polyalkyleneamine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems	Polyalkyleneamine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems	Polyalkyleneamine Adducts as Curing Agents for Thick Layer Water-Based Epoxy Systems				
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Italy	Great Britain		Germany		France		China P.R.		Canada		United States	United States	Korea South	Japan	Italy	Great Britain	Germany	France	Convention	European Patent	China P.R.	Israel		United States		Italy		Israel		Great Britain		
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2128112	2128112		2128112		2128112				2661111		9334409	8735512	1161475	5336245							2.0091E+11			7608322		2068111		195681		2068111		
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Molecular De-Airentrainer Compositions and Methods	of Use of Same	Molecular De-Airentrainer Compositions and Methods	of Use of Same	Molecular De-Airentrainer Compositions and Methods	of Use of Same	Molecular De-Airentrainer Compositions and Methods	of Use of Same	Molecular De-Airentrainer Compositions and Methods	of Use of Same	Molecular De-Airentrainer Compositions and Methods	Curing Agent for Low Temperature Cure Applications	Curing Agent for Low Temperature Cure Applications	Curing Agent for Low Temperature Cure Applications	Curing Agent for Low Temperature Cure Applications	Curing Agent for Low Temperature Cure Applications	Curing Agent for Low Temperature Cure Applications	Curing Agent for Low Temperature Cure Applications	Curing Agent for Low Temperature Cure Applications	Curing Agent for Low Temperature Cure Applications		Curing Agent for Low Temperature Cure Applications	Making Same	Impact Resistive Composite Materials and Methods for	Making Same	Impact Resistive Composite Materials and Methods for	Making Same	Impact Resistive Composite Materials and Methods for	Making Same	Impact Resistive Composite Materials and Methods for	Making Same	Impact Resistive Composite Materials and Methods for	Waking Same
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5378913	5175251 1282541 8501997	6.02009E+11 2159215 2159215	2.0091E+11 2159215	1502218			2128112	2128112	2128112	1281838	5091181
10/4/2013	1/11/2013 6/28/2013 8/6/2013	11/26/2014 11/26/2014 11/26/2014	9/4/2013 11/26/2014	3/6/2015			5/11/2016	5/11/2016	5/11/2016	6/27/2013	9/21/2012
Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n	Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n	Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n	Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n	Molecular De-Airentrainer Compositions and Methods of Use of Same Molecular De-Airentrainer Compositions and Methods of Use of Same	Molecular De-Airentrainer Compositions and Methods of Use of Same	Molecular De-Airentrainer Compositions and Methods of Use of Same	Molecular De-Airentrainer Compositions and Methods of Use of Same	Molecular De-Airentrainer Compositions and Methods of Use of Same	Molecular De-Airentrainer Compositions and Methods of Use of Same	Molecular De-Airentrainer Compositions and Methods of Use of Same	of Use of Same Molecular De-Airentrainer Compositions and Methods of Use of Same
9630 9630 9630	9630 9630 9630	9630 9630 9630	9630 9630	9620 9620	9620	9620	9620	9620	9620	9620	9620

07188A UI	07188A GI	07188A G	07188A Fr	07188A D	07188A CF	7188 U	7188 Ko	7188 Ja	7188 Cc	7188 Ch	2	07183D EL	07183AD3 Ko		07183A U
United States	Great Britain	Germany	France	Denmark	China P.R.	United States	Korea South	Japan	European Patent Convention	China P.R.	Korea South Korea South	European Patent	Korea South	Japan Korea South	United States China P.R.
ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	PENDING	ISSUED	PENDING ISSUED	BENIDING	DOCKETED	ISSUED ISSUED	PENDING
12/186574	9009836.9	9009836.9	9009836.9	9009836.9	2.0091E+11	12/186568	10-2009-0072001	2009-180562	9009838.5	2.0091E+11	10-2012-0083403	14001846.6		2013-114249 10-2012-0083463	12/197585 2.0151E+11
8/6/2008	7/29/2009	7/29/2009	7/29/2009	7/29/2009	8/6/2009	8/6/2008	8/5/2009	8/3/2009	7/29/2009	8/6/2009	8/25/2009	8/17/2009		8/24/2009 8/25/2009	8/25/2008
8198395	2157113	6.02009E+11	2157113	2157113	2.0091E+11	8318309	1353155	5400519		2.0091E+11	1514113			5744967 1486838	8512594
6/12/2012	9/7/2011	9/7/2011	9/7/2011	9/7/2011	6/19/2013	11/27/2012	1/13/2014	11/1/2013		6/19/2013	4/15/2015			5/15/2015 1/21/2015	8/20/2013
Thereof	Thereof Allulated Aminopropylated Ethilopediamines and Uses Allulated Aminopropylated Ethilopediamines and Uses	Alkylated Aminopropylated Ethylenediamines and Uses Alkylated Aminopropylated Ethylenediamines and Uses	Thereof	Thereof	Thereof Alludated Aminopropylated Ethilopediamines and Uses Alludated Aminopropylated Ethilopediamines and Uses	Benzylated Aminopropylated Alkylenediamines and Uses Thereof	Benzylated Aminopropylated Etnylenediamines and Uses Thereof	Benzylated Aminopropylated Etnylenediamines and Uses Thereof	Benzylated Aminopropylated Ethylenediamines and Uses Thereof	Benzylated Aminopropylated Ethylenediamines and Uses Thereof	Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n	Ouring Agost for Low Tomporature Ours Applications	Curing Agent for Low Temperature Cure Applications\n	Curing Agent for Low Temperature Cure Applications\n Curing Agent for Low Temperature Cure Applications\n	and Multirunctional Amin(s) Curing Agent for Low Temperature Cure Applications\n
9630	9630	9630	9630	9630	9630	9630	9630	9630	9630	9630	9630 9630	0630	9630	9630 9630	9630 9630

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

A Curing Agent Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam		6/17/2014 3/20/2013	1411222 2.00911E+11	8/21/2009 12/11/2009	10-2012-0123362 2.00911E+11	ISSUED	Korea South China P.R.	07219D2 7283
	the Same	6/17/2014 6/17/2014	1411069 1411777	8/21/2009	10-2011-0104708	ISSUED	Korea South	07219D
Curing Agent Polymeric Composition and a Method for Producing	A Curing Agent A Polvmeric Co	12/17/2013	1344593	8/21/2009	10-2009-0077771	ISSUED	Korea South	7219
lkylated 4-Aminobenzyl-4-Aminocyclohexane	Alkylated 4	4/5/2013	5237224	8/21/2009	2009-191921	ISSUED	Japan	7219
N-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as Curing Agents in Polymer Compositions	N-Alkylat Curing Α _ξ	1/2/2013	2157079	8/17/2009	5.02014E+14	ISSUED	Italy	7219
N-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as Curing Agents in Polymer Compositions	N-Alkylat Curing A ₈	1/2/2013	2157079	8/17/2009	9167997.7	ISSUED	Great Britain	7219
-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as uring Agents in Polymer Compositions	N-Alkylat Curing A _l	1/2/2013	6.02009E+11	8/17/2009	9167997.7	ISSUED	Germany	7219
N-Alkylated 4-Aminobenzyl-4-Aminocyclohexanes as Curing Agents in Polymer Compositions	N-Alkyla Curing A	1/2/2013	2157079	8/17/2009	9167997.7	ISSUED	France	7219
kylated 4-Aminobenzyl-4-Aminocyclohexane	Alkylate	7/10/2013	2.0091E+11	8/21/2009	2.0091E+11	ISSUED	China P.R.	7219
Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates	Mixed Po	6/24/2014	8759470	8/24/2011	13/216687	ISSUED	United States	07198D
Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates	Mixed Po			8/20/2009	2551/CHE/2015	PENDING	India	07198D
Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates as Curatives for Polyisocyanates	Mixed F Alkylate			8/20/2009	11195074.7	PENDING	European Patent Convention	07198D
Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates	Mixed Pc Alkylates	9/27/2011	8026318	8/22/2008	12/196606	ISSUED	United States	7198
Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates	Mixed Po Alkylates	7/19/2013	5319454	8/19/2009	2009-190357	ISSUED	Japan	7198
Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates as Curatives for Polyisocyanates	Mixed F Alkylate	2/8/2012	2157110	8/20/2009	5.02013E+14	ISSUED	Italy	7198
Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates	Mixed Pc Alkylates	9/2/2015	268545	8/20/2009	1985/CHE/2009	ISSUED	India	7198
Mixed Polycycloaliphatic Amines (MPCA) and MPCA Alkylates as Curatives for Polyisocyanates	Mixed Alkylat	2/8/2012	2157110	8/20/2009	9168312.8	ISSUED	Great Britain	7198

7350	7350	7350	7350	07307P	07307P	07307P	07307P	07307P	07307P	7283	7283	7283	7283	7283	7283
Great Britain	Germany	France	China P.R.	United States	Taiwan	Korea South	Japan	European Patent Convention	China P.R.	United States	Spain	Italy	Great Britain	Germany	France
ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	PENDING	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED
10009284	10009284	10009284	2.0101E+11	12/609068	99113122	10-2010-0039467	2010-098630	10004456.9	2.0101E+11	12/332845	9178255.7	5.02013E+14	9178255.7	9178255.7	9178255.7
9/7/2010	9/7/2010	9/7/2010	9/9/2010	10/30/2009	4/26/2010	4/28/2010	4/22/2010	4/27/2010	4/29/2010	12/11/2008	12/8/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009
2295483	6.0201E+11	2295483	2.0101E+11	8357764	440649	10-1303646	5368362		2.0101E+11	7872055	2196493	2196493	2196493	6.02009E+11	2196493
10/29/2014	10/29/2014	10/29/2014	8/27/2014	1/22/2013	6/11/2014	8/29/2013	9/20/2013		6/3/2015	1/18/2011	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012
Low Temperature Curable Epoxy Compositions Containing Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Urea Curatives	Low Temperature Curable Lpoxy Compositions Containing Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Urea Curatives	Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts	Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts	Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts	Fast Curable Epoxy Compositions Containing Imidazoleand 1-(Aminoalkyl) Imidazole-Isocyanate Adducts	Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts	Fast Curable Epoxy Compositions Containing Imidazole- and 1-(Aminoalkyl) Imidazole-Isocyanate Adducts	Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam	Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam	Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam	Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam	Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam	Catalyst Composition For Water Blown, Low Density, Rigid Polyurethane Foam
9630	9630	9630	9630	9630	9630	9630	9630	9630	9630	9650	9650	9650	9650	9650	9650

07379ZP 07379ZP 07379ZP 07379ZP 7384	7355 07379ZP 07379ZP	7355 7355	7355	7355	7355	7355	7355	7350	7350	7350	7350
European Patent Convention Japan United States China P.R.	United States Brazil China P.R.	Japan Korea South	Italy	Great Britain	Germany	France	China P.R.	United States	Korea South	Japan	ltaly
PENDING ISSUED ISSUED PENDING	ISSUED PENDING ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED
10800822.8 2012-544805 12/967752 2.0128E+12	12/557930 1.12012E+12 2.0108E+11	2010-203069 10-2010-0088829	5.02013E+14	10009283.2	10009283.2	10009283.2	2.0101E+11	12/557824	10-2010-0088834	2010-202979	5.02015E+14
12/16/2010 12/16/2010 12/14/2010 5/24/2012	9/11/2009 12/16/2010 12/16/2010	9/10/2010 9/10/2010	9/7/2010	9/7/2010	9/7/2010	9/7/2010	9/9/2010	9/11/2009	9/10/2010	9/10/2010	9/7/2010
5731535 9233063	7910667 2.0108E+11	5395019 10-1150669	2295486	2295486	6.0201E+11	2295486	2.0101E+11	8076395	10-1308611	5603180	2295483
4/17/2015 1/12/2016	3/22/2011 12/3/2014	10/25/2013 5/21/2012	2/29/2012	2/29/2012	2/29/2012	2/29/2012	3/27/2013	12/13/2011	9/9/2013	8/29/2014	10/29/2014
Polymeric Compositions for Personal Care Products Polymeric Compositions for Personal Care Products Polymeric Compositions for Personal Care Products Benzylated Polyamine Curing Agents	Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives Polymeric Compositions for Personal Care Products Polymeric Compositions for Personal Care Products	Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Phenolic-Blocked Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Urea Curatives	Low Temperature Curable Epoxy Compositions Containing Urea Curatives
9620 9620 9620 9630	9630 9620 9620	9630 9630	9630	9630	9630	9630	9630	9630	9630	9630	9630

07445ZP 07445ZP	07445ZP	07445ZP	07445ZP	07444ZPD	07444ZPD	07444ZPD	07444ZPD	07444ZPD	07444ZPC		07444ZP	7384	7384	7384	7384	7384										
Germany Great Britain	France	China P.R.	Brazil	Japan	Italy	Great Britain	Germany	France	United States		United States	Mexico	Korea South	Japan	Italy	Great Britain	Germany	France	China P.R.	Brazil	United States	Korea South	Japan	India	Convention	European Patent
ISSUED	ISSUED	ISSUED	PENDING	PENDING	ISSUED	ISSUED	ISSUED	ISSUED	PENDING		ISSUED	PENDING	ISSUED	PENDING	ISSUED	ISSUED	PENDING	PENDING	PENDING							
11738350.5 11738350.5	11738350.5	201180033973.X	BR1120120333291	2015-246153	5.02015E+14	14000650.3	14000650.3	14000650.3	14/851081		13/178562	MX/a/2012/014825	10-2013-7003351	2013-519725	5.02015E+14	11738887.6	11738887.6	11738887.6	2.0118E+11	BR112012033328.3	13/242153	10-2014-7010875	2014-531807	2907/CHENP/2014	12726527	
7/8/2011 7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	9/11/2015		7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	7/8/2011	9/23/2011	5/24/2012	5/24/2012	5/24/2012	5/24/2012	
6.02011E+11 2591035	2591035	201180033973.X			2738192	2738192	6.02011E+11	2738192			9334382		10-1466075	5860046	2591031	2591031	6.02011E+11	2591031	2.0118E+11		8729213	10-1590981				
8/19/2015 8/19/2015	8/19/2015	4/22/2015			6/10/2015	6/10/2015	6/10/2015	6/10/2015			5/10/2016		11/21/2014	12/25/2015	6/17/2015	6/17/2015	6/17/2015	6/17/2015	12/16/2015		5/20/2014	1/27/2016				
Additives for Improving Polyurethane Foam Performance Additives for Improving Polyurethane Foam	Additives for Improving Polyuretnane Foam Performance Additions for Improving Polyurethane Foam	Additives for Improving Polyurethane Foam Performance	Additives for improving Polyurethane Foam Performance	Process for Producing Flexible Polyurethane Foam	Performance	Additives for Improving Polyurethane Foam	Process for Producing Flexible Polyurethane Foam	Benzylated Polyamine Curing Agents																		
9650 9650	9650	9650	9650	9650	9650	9650	9650	9650	9650		9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9630	9630	9630	9630	9630	

						07471ZP United States	07471ZP Korea South	07471ZP Japan	07471ZP Italy	07471ZP India	07471ZP Great Britain	07471ZP Germany	07471ZP France	07471ZP China P.R.	07445ZPD Mexico		07445ZPD Korea South		07445ZPC United States		07445ZP United States		07445ZP Mexico		07445ZP Korea South		07445ZP Japan		07445ZP Italy		
1661167	ISSUED	ISSUED	ISSUED	ISSUED		ISSUED	ISSUED	ISSUED	ISSUED	PENDING	ISSUED	ISSUED	ISSUED	ISSUED	PENDING		PENDING		PENDING		PENDING		PENDING		ISSUED		ISSUED		ISSUED		
	2001-180753	7656	10/821919	2.0041E+11		13/075403	10-2011-0087735	2011-188895	5.02015E+14	2950/CHE/2011	11006993.7	11006993.7	11006993.7	2.0111E+11	MX/a/2016/005241		10-2015-7002282		14/851054		13/178558		MX/a/2012/014822		10-2013-7003349		2013-519727		5.02015E+14		
6/15/2001	6/14/2001	6/15/2000	4/12/2004	4/8/2004		3/30/2011	8/31/2011	8/31/2011	8/26/2011	8/29/2011	8/26/2011	8/26/2011	8/26/2011	8/31/2011	7/8/2011		7/8/2011		9/11/2015		7/8/2011		7/8/2011		7/8/2011		7/8/2011		7/8/2011		
6464969	3863392	2810237	8999311	2.0041E+11		9279032	10-1239296	5801653	2426159		2426159	6.02011E+11	2426159	2.0111E+11											10-1498482		5706525		2591035		
10/15/2002	10/6/2006	7/26/2002	4/7/2015	1/6/2010		3/8/2016	2/26/2013	9/4/2015	3/25/2015		3/25/2015	3/25/2015	3/25/2015	7/29/2015											2/26/2015		3/6/2015		8/19/2015		
Film-Forming Cosmetic Composition	Film-Forming Cosmetic Composition	Film-Forming Cosmetic Composition	Cosmetic Composition Having a Certain Thermal Profile	Profile	Cosmetic Compositon Having A Particular Thermal	Low Temperature Curable Epoxy Compositions	Performance	Additives for Improving Polyurethane Foam	Performance	Additives for Improving Polyurethane Foam	Performance	Additives for Improving Polyurethane Foam	Performance	Additives for Improving Polyurethane Foam	Performance	Additives for Improving Polyurethane Foam	Performance	Additives for Improving Polyurethane Foam	Performance	Additives for Improving Polyurethane Foam	Performance	Additives for Improving Polyurethane Foam	Performance								
9620	9620	9620	9620	9620		9630	9630	9630	9630	9630	9630	9630	9630	9630	9650		9650		9650		9650		9650		9650		9650		9650		

7486	7486	7486	7486	07480ZPD	07480ZP	07480ZP	07480ZP	07480ZP	07480ZP	0/4802P	0748027	0/480ZP			07480ZP	0740027
Japan	India	European Patent Convention	China P.R.	Japan	United States	Turkey	Poland	Netherlands	Japan	Italy	Great Britain	Germany	France	China P.R.	Canada	beigium
ISSUED	PENDING	PENDING	PENDING	PENDING	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	וסטטבט	ISSUED.	ISSUED	ISSUED	ISSUED	PENDING	ISSUED
2013-558015	6546/CHENP/2013	12705739.6	2.0128E+11	2015-106987	13/206545	11749292.6	11749292.6	11749292.6	2013-524222	3.UZU13E+14	11/49292.5	11/49292.6	11749292.6	2.0118E+11	2807666	11/49292.6
2/9/2012	2/9/2012	2/9/2012	2/9/2012	8/11/2011	8/10/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
5873114					9290604	TR2015/03219	2603560	2603560	5876485	2003300	2503560	6.02011E+11	2603560	2.0118E+11		2003000
1/22/2016					3/22/2016	12/24/2014	12/24/2014	12/24/2014	1/29/2016	12/24/2014	12/24/2014	12/24/2014	12/24/2014	6/3/2015		12/24/2014
Modified Amine Amines Modified Amine Amines	Polyamides and Amidoamines from Selectively Rokamides and Amidoamines from Selectively	Polyamides and Amidoamines from Selectively Modified Amine Amines	Modified Amine Amines	Spray Foam Only and Amidentian from Selection.	NDE Frag Emulsifiers for Water-blown Polyurethane NDE Frag Emulsifiers for Water-blown Polyurethane	Spray Foam	Spray Foam NDF-Free Fmillsifiers for Water-Rlown Polvinethane	Spray Foam NPE-Free Emulsifiers for Water-Blown Polvurethane	Spray Foam NPE-Free Emulsifiers for Water-Blown Polyurethane	Spray roam NPE-Free Emulsifiers for Water-Blown Polyurethane	Spray roam NPE-Free Emulsifiers for Water-Blown Polyurethane	Spray Foam NPE-Free Emulsifiers for Water-Blown Polyurethane	NPE-Free Emulsifiers for Water-Blown Polyurethane			
9630	9630	9630	9630	9650	9650	9650	9650	9650	9650	9630	9650	9650	9650	9650	9650	9000

07539ZP 07539ZP	07539ZP	07533P	0/533P 07533P	07533P	07533P	07533P	7533	7521	7497	7497	7497	7497	7497	7497	7497	7497	7497	07486D	7486	7486
European Patent Convention Korea South	China P.R.	Patent Cooperation Treaty	Japan Korea South	India	European Patent Convention	China P.R.	United States	China P.R.	United States	Korea South	Japan	Italy	India	Great Britain	Germany	France	China P.R.	Japan	United States	Korea South
PENDING PENDING	PENDING	PENDING	ISSUED	PENDING	PENDING	PENDING	PENDING	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	PENDING	ISSUED	ISSUED	ISSUED	PENDING	PENDING	ISSUED	ISSUED
12735726.7 10-2014-7003158	201280033771X	PCT/CN2012/076575	2014-5161/5 10-2014-7002082	9458/CHENP/2013	12801978.3	2.0128E+12	13/168174	201120118720.X	13/208449	10-2014-7006628	2014-525010	12727518.8	1813/CHENP/2014	12727518.8	12727518.8	12727518.8	2.0128E+12	2015-222069	13/047854	10-2013-7027119
6/29/2012 6/29/2012	6/29/2012	6/7/2012	6/7/2012	6/7/2012	6/7/2012	6/7/2012	6/24/2011	4/12/2011	8/12/2011	6/4/2012	6/4/2012	6/4/2012	6/4/2012	6/4/2012	6/4/2012	6/4/2012	6/4/2012	2/9/2012	3/15/2011	2/9/2012
			10-1552337					201120118720.X 3/28/2012	9321881	10-1552341	5824152	2742079		2742079	2742079	2742079			8513376	10-1554628
			9/4/2015					3/28/2012	4/26/2016	9/4/2015	10/16/2015	5/18/2016		5/18/2016	5/18/2016	5/18/2016			8/20/2013	9/15/2015
Process For Producing Flexible Polyurethane Foam Using Natural Oil Polyols Process For Producing Flexible Polyurethane Foam	Process For Producing Hexible Polyurethane Foam Using Natural Oil Polyols	Epoxy Resin Compositions	Epoxy Resin Compositions Epoxy Resin Compositions	Epoxy Resin Compositions	Epoxy Resin Compositions	Epoxy Resin Compositions	Epoxy Resin Compositions	Polyurethane Microporous Elastomer with Dense Layer of Epidermis	Liquid Methylenedianiline Compositions	Polyamides and Amidoamines from Selectively Modified Amine Amines	Modified Amine Amines	Polyamides and Amidoamines from Selectively Modified Amine Amines Polyamides and Amidoamines from Selectively								
9650 9650	9650	9630	9630	9630	9630	9630	9630	9650	9630	9630	9630	9630	9630	9630	9630	9630	9630	9630	9630	9630

07543ZP	07543ZP	07543ZP	07543ZP	07543ZP	7542	7542	7542	7542	7542	07540ZPD	07540ZP	07540ZP	07540ZP	07540ZP	07540ZP	07540ZP	07539ZPC	07539ZP
Italy	Great Britain	Germany	France	China P.R.	United States	Spain	Germany	France	France	Korea South	United States	Mexico	Korea South	European Patent Convention	China P.R.	Brazil	United States	United States
ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	PENDING	PENDING	PENDING	ISSUED	PENDING	PENDING	PENDING	PENDING	ISSUED
5.02015E+14	12732940.7	12732940.7	12732940.7	2.0128E+12	09/743224	99923706.8	99923706.8	9808765	99923706.8	10-2015-7009517	13/486226	MX/a/2013/014216	10-2014-7002600	12727028.8	2.0128E+12	BR112013031294.7	14/867114	13/534239
6/29/2012	6/29/2012	6/29/2012	6/29/2012	6/29/2012	6/9/1999	6/9/1999	6/9/1999	7/8/1998	6/9/1999	6/4/2012	6/1/2012	6/4/2012	6/4/2012	6/4/2012	6/4/2012	6/4/2012	9/28/2015	6/27/2012
2729512	2729512	6.02012E+11	2729512	2.0128E+12	6569409	1096916	69941293.5	2780884	1096916				10-1528578					9145466
10/7/2015	10/7/2015	10/7/2015	10/7/2015	12/23/2015	5/27/2003	8/19/2009	8/19/2009	7/19/2002	8/19/2009				6/8/2015					9/29/2015
Additives for improving Natural OII Based Polyurethane Foam Performance	Additives for improving Natural Oil based Polyuretnane Foam Performance	Additives for Improving Natural Oil Based Polyurethane Foam Performance	Additives for improving Natural Oil based Polyurethane Foam Performance		with Light Stability Although the stability of the stabi	with Light Stability with Light Stability	with Light Stability	with Light Stability Method for Providing Dibenzovlmethane Derivatives	with Light Stability With Light Stability	Reducing Emissions in Polyurethane Foam	Process For Producing Flexible Polyurethane Foam Using Natural Oil Polyols	Using Natural Oil Polyols Process For Producing Flexible Polyurethane Foam Using Natural Oil Polyols						
9650	9650	9650	9650	9650	9620	9620	9620	9620	9620	9650	9650	9650	9650	9650	9650	9650	9650	9650

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

07561ZP	7556	7556	7556	7556	7556	7556	7556	07554ZPD	07554ZP	07554ZP	07554ZP	07554ZP	07554ZP	07554ZP	07552ZP 07552ZPD
			_					-		-					
Brazil	United States	Mexico	Korea South	Japan	European Patent Convention	China P.R.	Brazil	Japan	United States	South Africa	Japan	European Patent Convention	China P.R.	Canada	United States Japan
PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	ISSUED PENDING
BR112014006674.4	14/387986	MX/a/2014/009777	10-2014-7030631	2015-502045	12873125.4	2.0128E+12	BR11 2014 023452.3	2015-230405	13/678736	2014/03111	2014-542488	12795960.9	2.0128E+12	2854020	13/411698 2014-263276
10/3/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	11/26/2012	11/16/2012	11/16/2012	11/26/2012	11/16/2012	11/16/2012	11/16/2012	3/5/2012 9/7/2012
															8735524
															5/27/2014
the Composition	Polyuretnane Foam Production Process, Pre-Mix, Formulation, and Product Totting Amino Composition and Mathed for Making	Polyurethane Foam Production Process, Pre-Mix, Formulation, and Product	Polyurethane Foam Production Process, Pre-Mix, Formulation, and Product	Polyurethane Foam Production Process, Pre-Mix, Formulation, and Product	Polyurethane Foam Production Process, Pre-Mix, Formulation, and Product	Polyurethane Foam Production Process, Pre-Mix, Formulation, and Product	Polyurethane Foam Production Process, Pre-Mix, Formulation, and Product	Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid	Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid	Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid	Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid	Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid	Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid	Processes, Products, and Compositions Having Tetraalkylguanidine Salt of Aromatic Carboxylic Acid	Silicone Containing Compositions and Uses Thereof Silicone Containing Compositions and Uses Thereof
9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9650	9620 9620

9630	Curing Agents in One Component Epoxy Resin Compositions			7/16/2014	2.0141E+12	PENDING	China P.R.	7676
	Deodorant Cosmetic Composition Comprising at Least One Semicrystalline Polymer Amines and Polymeric Phenols and Usage Thereof as	9/3/2013	8524256	6/24/2004	10/874733	ISSUED	United States	7582
	Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane			1/6/2012	14/370173	PENDING	United States	7581
9650	Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane	1/11/2015	468427	1/2/2013	102100059	ISSUED	Taiwan	7581
9650	Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane			1/6/2012	PCT/CN2012/070015	PENDING	Patent Cooperation Treaty	7581
9650	Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane			1/6/2012	MX/a/2014/007797	PENDING	Mexico	7581
9650	Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane			1/6/2012	12864351.7	PENDING	European Patent Convention	7581
9650	Melamine-Polyol Dispersions and Uses Thereof in Manufacturing Polyurethane	3/30/2016	2.0128E+12	1/6/2012	2.0128E+12	ISSUED	China P.R.	7581
9650	Tertiary Amine Composition and Method for Making the Composition			2/29/2016	15/055744	PENDING	United States	07561ZPD
9650	Tertiary Amine Composition and Method for Making the Composition	3/1/2016	9273175	10/2/2012	13/633423	ISSUED	United States	07561ZP
9650	Tertiary Amine Composition and Method for Making the Composition			10/3/2012	MX/a/2014/002468	PENDING	Mexico	07561ZP
9650	Tertiary Amine Composition and Method for Making the Composition			10/3/2012	10-2014-7012154	PENDING	Korea South	07561ZP
9650	Tertiary Amine Composition and Method for Making the Composition			10/3/2012	2014-534648	PENDING	Japan	07561ZP
9650	Tertiary Amine Composition and Method for Making the Composition			10/3/2012	12780577.8	PENDING	European Patent Convention	07561ZP
9650	Tertiary Amine Composition and Method for Making the Composition			10/3/2012	2.0128E+12	PENDING	China P.R.	07561ZP

7687 Fra	7687 Ch	7680 Tra 7680 Ur		7680 Co	7680 Ca		7676 Ko	7676 Jap	7676 Inc	7676 Co
France	China P.R.	Patent Cooperation Treaty United States	Japan Korea South	European Patent Convention	Canada China P.R.	United States	Korea South	Japan	India	Convention
ISSUED	ISSUED	PENDING	PENDING	PENDING	PENDING	PENDING	ISSUED	PENDING	PENDING	PENDING
2290939.4	2121517	PCT/US14/18166 13/779842	2015-560241 10-2015-7025931	14710692.6	2896721 2.0148E+12	13/944312	10-2014-0089768	2014-146836	3459/CHE/2014	14002461.3
4/15/2002	5/3/2002	2/25/2014 2/28/2013	2/25/2014 2/25/2014	2/25/2014	2/25/2014 2/25/2014	7/17/2013	7/16/2014	7/17/2014	7/14/2014	7/16/2014
1262164	2121517	9080007					10-1607646			
12/4/2002	10/1/2008	7/14/2015					3/24/2016			
Composition Comprising at Least One Liquid Fatty Phase Structured By at Least One Semi-Crystalline Polymer	Composition comprising at Least One Liquid Fatty Phase Structured By at Least One Semi-Crystalline Polymer	Anhydride Accelerators for Epoxy Resin Systems Anhydride Accelerators for Epoxy Resin Systems	Anhydride Accelerators for Epoxy Resin Systems Anhydride Accelerators for Epoxy Resin Systems	Anhydride Accelerators for Epoxy Resin Systems	Anhydride Accelerators for Epoxy Resin Systems Anhydride Accelerators for Epoxy Resin Systems	Amines and Polymeric Phenols and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions	Amines and Polymeric Phenols and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions	Amines and Polymeric Phenois and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions	Amines and Polymeric Phenois and Usage Thereof as Curing Agents in One Component Epoxy Resin Compositions	Compositions
9620	9620	9630 9630	9630 9630	9630	9630 9630	9630	9630	9630	9630	9630

7691	7691	1697	1001	7691	7691		7690	7690	7690	7690	7688	7688	7688	7688	7688	7687	7687
Switzerland	Great Britain	Germany		France	Convention	European Patent	United States	South Africa	Germany	European Patent Convention	United States	Korea South	Japan	European Patent Convention	China P.R.	United States	Germany
ISSUED	ISSUED	וטאטבט		ISSUED	ISSUED		PENDING	ISSUED	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	ISSUED	ISSUED
6114160.2	6114160.2	6114160.2		6114160.2	6114160.2		12/833165	2011/01850	1.0201E+11	11157772.2	13/857265	10-2015-7031479	2016-506344	14718895.7	201480019183X	10/138326	2290939.4
5/18/2006	5/18/2006	9/18/2000	F /10 /2000	5/18/2006	5/18/2006		7/9/2010	3/10/2011	3/17/2010	3/10/2011	4/5/2013	11/2/2015	3/31/2014	3/31/2014	3/31/2014	5/6/2002	4/15/2002
1726296	1726296	5.02006E+11	1	1726296	1726296			2011/01850								7129276	60219103.3
3/3/2010	3/3/2010	3/3/2010	2/2/2010	3/3/2010	3/3/2010			11/28/2012								10/31/2006	12/4/2002
Theanine	Theanine Cosmetic or Therapeutic Combined Preparation with	Cosmetic or Therapeutic Combined Preparation with	Cosmetic or Therapeutic Combined Preparation with	Theanine	Theanine Cosmetic or Therapeutic Combined Preparation with	Cosmetic or Therapeutic Combined Preparation with	Composition Having a Sirtuin Activator	One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes	One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes	One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes	One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes	One Component Epoxy Curing Agents Comprising Hydroxyalkylamino Cycloalkanes	Composition Comprising at Least One Liquid Fatty Phase Structured By at Least One Semi-Crystalline Polymer	Composition Comprising at Least One Liquid Fatty Phase Structured By at Least One Semi-Crystalline Polymer			
9620	9620	9020		9620	9620		9620	9620	9620	9620	9630	9630	9630	9630	9630	9620	9620

07711ZP	07711ZP	07711ZP	07710ZP	07710ZP	07710ZP	07710ZP	07710ZP	07706D	7706	7706	7706	7706	7706	7706	7706	7706
European Patent Convention	China P.R.	Canada	United States	Korea South	Japan	European Patent Convention	China P.R.	Japan	United States	Russian Federation	Korea South	Japan	Germany	European Patent Convention	China P.R.	Canada
PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	DOCKETED	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING
13005061	201310506715X	2830692	14/171852	10-2015-7023993	2015-553938	14708353.9	2.0148E+12		14/118378	2013156355	10-2013-7033721	2014-510699	1.02011E+11	12705681	2.0128E+12	2840039
10/23/2013	10/24/2013	10/22/2013	2/4/2014	2/5/2014	2/5/2014	2/5/2014	2/5/2014		2/24/2012	2/24/2012	2/24/2012	2/24/2012	5/19/2011	2/24/2012	2/24/2012	2/24/2012
Delay Action Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing	Delay Action Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing Blowing Agents	Delay Action Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing Blowing Agents	Low Gloss, High Solids Polyurea Coatings	Agent for Providing Positive Surface Charge on UV Protection Vesicles	Agent for Providing Positive Surface Charge on UV Protection Vesicles	Agent for Providing Positive Surface Charge on UV Protection Vesicles	Charge Provides for a Vesicular Carrier System of a UV Protection Composition for the Skin or Hair	Agent for Providing Positive Surface Charge on UV Protection Vesicles	Agent for Providing Positive Surface Charge on UV Protection Vesicles	Agent for Providing Positive Surface Charge on UV Protection Vesicles	Agent for Providing Positive Surface Charge on UV Protection Vesicles	Charge Donor for a Vesicular Carrier System of a UV Protective Agent for the Skin or Hair				

Blowing Agents

07711ZPD	07711ZP2		07711ZP2			07711ZP2			07711ZP2			07711ZP2			07711ZP2			07711ZP2			07711ZP2			07711ZP			07711ZP		
Japan	United States		Mexico			Korea South			Japan			Convention	European Patent		China P.R.			Canada			Brazil			United States			Japan		
PENDING	PENDING		PENDING			PENDING			PENDING			PENDING			PENDING			PENDING			PENDING			PENDING			ISSUED		
2015-207945	14/437070		MX/a/2015/004682			10-2015-7013264			2015-539781			13789643.7			2.0138E+12			2887030			BR112015008680-2			13/951958			2013-219933		
10/23/2013	10/24/2013		10/24/2013			10/24/2013			10/24/2013			10/24/2013			10/24/2013			10/24/2013			10/24/2013			7/26/2013			10/23/2013		
																											5869546		
																											1/15/2016		
Delay Action Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing	Blowing Agents	Amine Catalyst for Improving the Stability of Polyurethane Systems Having Halogen Containing	Blowing Agents	Polyurethane Systems Having Halogen Containing	Amine Catalyst for Improving the Stability of	Blowing Agents	Polyurethane Systems Having Halogen Containing	Amine Catalyst for Improving the Stability of	Blowing Agents	Polyurethane Systems Having Halogen Containing	Amine Catalyst for Improving the Stability of	Blowing Agents	Polyurethane Systems Having Halogen Containing	Amine Catalyst for Improving the Stability of	Blowing Agents	Polyurethane Systems Having Halogen Containing	Amine Catalyst for Improving the Stability of	Blowing Agents	Polyurethane Systems Having Halogen Containing	Amine Catalyst for Improving the Stability of	Blowing Agents	Polyurethane Systems Having Halogen Containing	Amine Catalyst for Improving the Stability of	Blowing Agents	Polyurethane Systems Having Halogen Containing	Delay Action Catalyst for Improving the Stability of	Blowing Agents	Polyurethane Systems Having Halogen Containing	Delay Action Catalyst for Improving the Stability of
9650	9650		9650			9650			9650			9650			9650			9650			9650			9650			9650		

Blowing Agents

7733	7729	7729 7729	7729	7729	7728	7728	7728	7728	7728	7728	7728	07723ZPD2	07723ZPD	07723ZPD	07723ZP	07723ZP	07723ZP	07723ZP		07723ZP
France	Switzerland	Great Britain Snain	Germany	France	Spain	South Africa	Poland	Great Britain	Germany	France	Canada	Japan	Korea South	Japan	United States	Korea South	India	Convention	European Patent	China P.R.
ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	ISSUED	PENDING	PENDING	PENDING	ISSUED	PENDING	PENDING	PENDING		PENDING
98903005	4818411	4818411 4818411 3	4818411	4818411.3	4766408.1	2006/01179	4766408.1	4766408.1	4766408.1	4766408.1	2534551	2015-177442	10-2015-0166667	2015-014519	14/041139	10-2013-0158611	5853/CHE/2013	13005821.7		201310701579X
1/14/1998	11/4/2004	11/4/2004 11/4/2004	11/4/2004	11/4/2004	8/4/2004	8/4/2004	8/4/2004	8/4/2004	8/4/2004	8/4/2004	8/4/2004	12/18/2013	12/18/2013	12/18/2013	9/30/2013	12/18/2013	12/16/2013	12/13/2013		12/18/2013
1006985	1686951	1686951 1686951	5.02004E+11	1686951	1673068	2006/01179	1673068	1673068	5.02004E+11	1673068	2534551				9309381					
4/17/2002	3/2/2011	3/2/2011 3/2/2011	3/2/2011	3/2/2011	12/2/2009	4/25/2007	12/2/2009	12/2/2009	12/2/2009	12/2/2009	4/24/2012				4/12/2016					
Aqueous Composition Comprising Biotin-Containing Liposomes	Combined Cosmetic or Therapeutic Preparation	Combined Cosmetic or Therapeutic Preparation Combined Cosmetic or Therapeutic Preparation	Combined Cosmetic or Therapeutic Preparation	Combined Cosmetic or Therapeutic Preparation	Into the Skin	Into the Skin	Los metic Composition Promoting Oxygen Transport Into the Skin	Into the Skin	Cosmetic Composition Promoting Oxygen Transport Into the Skin	Cosmetic Composition Promoting Oxygen Transport Into the Skin	Cosmetic Composition Promoting Oxygen Transport	Epoxy Resin Compositions Using Solvated Solids	Epoxy Resin Compositions Using Solvated Solids	Epoxy Resin Compositions Using Solvated Solids	Epoxy Resin Compositions Using Solvated Solids	Epoxy Resin Compositions Using Solvated Solids	Epoxy Resin Compositions Using Solvated Solids	Epoxy Resin Compositions Using Solvated Solids		Epoxy Resin Compositions Using Solvated Solids
9620	9620	9620 9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9630	9630	9630	9630	9630	9630	9630		9630

07776ZP 7789	07776ZP	07755Z2P	07755Z2P	07755Z2P	07755Z2P	07755Z2P	07755Z2P	07754ZP	7748	7748	7747	7747	7740	7733	7733
United States China P.R.	Patent Cooperation Treaty	P United States	P Korea South	Р Јарап	European Patent P Convention	P China P.R.	P Canada	European Patent Convention	Germany	European Patent Convention	Germany	European Patent Convention	European Patent Convention	Great Britain	Germany
PENDING PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	ISSUED	ISSUED
15/077071 2.0148E+11	PCT/US2016/023668	14/781076	10-2015-7031296	2016-506364	14723234.2	2.0148E+12	2904105	14723608.7	1.02009E+11	10174210.4	1.02009E+11	10156933.3	10705841.4	98903005	98903005.1
3/22/2016 9/30/2014	3/23/2016	4/1/2014	4/1/2014	4/1/2014	4/1/2014	4/1/2014	4/1/2014	4/1/2014	8/28/2009	8/26/2010	3/20/2009	3/18/2010	2/12/2010	1/14/1998	1/14/1998
														1006985	69804971.3
														4/17/2002	4/17/2002
EPOXY STREET PAYING INTROVED FRACTORE Epoxy Liquid Curing Agent Compositions	Epoxy Systems Having Improved Fracture Toughness	compositions of Delivery Systems for Personal Care Products	Compositions of Delivery Systems for Personal Care Products	Compositions of Delivery Systems for Personal Care Products	Compositions of Delivery Systems for Personal Care Products	Compositions of Delivery Systems for Personal Care Products	Compositions of Delivery Systems for Personal Care Products	Compositions of Delivery Systems and Lupine with Physical Stability	Cosmetic Composition for Treatment of Cellulite	Cosmetic Composition for Treatment of Cellulite	Cosmetic Composition for Skin Smoothening	Cosmetic Composition for Skin Smoothening	Cationic Carrier System Composed of Positively charged Lipid Vesicles	Aqueous composition comprising biotin-containing Liposomes	Liposomes
9630 9630	9630	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620	9620

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

07899ZP Ur	Pa Cc 07899ZP Tr	Pa Cc 7893 Tr	07872ZP Ur	Pa Cc 07872ZP Tr	Pa Cc 07858ZP2 Tr 07858ZP2 Ur	Pa Cc 07858ZP Tr 07858ZP Ur	Pa Cc 07847ZP Tr 07847ZP Ur	07846ZP Ur	Pa Cc 07846ZP Tr	07837ZP Ur
United States	Patent Cooperation Treaty	Patent Cooperation Treaty	United States	Patent Cooperation Treaty	Patent Cooperation Treaty United States	Patent Cooperation Treaty United States	Patent Cooperation Treaty United States	United States	Patent Cooperation Treaty	United States
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15/093838	PCT/US16/26649	PCT/CN2015/081524 6/16/2015	14/932095	PCT/US2015/058970	PCT/US2016/027319 15/097734	PCT/US2015/055281 14/881544	PCT/US2015/051405 14/861154	14/851441	PCT/US2015/049655	14/797378
4/8/2016	4/8/2016	6/16/2015	11/4/2015	11/4/2015	4/13/2016 4/13/2016	10/13/2015 10/13/2015	9/22/2015 9/22/2015	9/11/2015	9/11/2015	7/13/2015
DELAYED ACTION GELLING CATALYST COMPOSITIONS AND METHODS FOR MAKING POLYURETHANE	DELAYED ACTION GELLING CATALYST COMPOSITIONS AND METHODS FOR MAKING POLYURETHANE POLYMERS\n	Aldehyde Scavengers for Polyurethane Foams	Amidopolyamines with Enhanced Gel-Time for Elevated Temperature Applications	Amidopolyamines with Enhanced Gel-Time for Elevated Temperature Applications	Polyurethane Catalysts from Sulfur Based Salts Polyurethane Catalysts from Sulfur Based Salts	Polyurethane Gelling Catalysts from Activated Sulfur Containing Compounds Polyurethane Catalysts from Sulfur Based Salts	Ketimines of Benzylated Polyamines as Curing Agents Ketimines of Benzylated Polyamines as Curing Agents	Low Emissions Polyurethane Foam Made with Isocyanate Reactive Amine Catalyst	Low Emissions Polyurethane Foam Made with Isocyanate Reactive Amine Catalyst	Epoxide-Based Composition
9650	9650	9650	9630	9630	9650 9650	9650 9650	9630 9630	9650	9650	9630

POLYMERS\n

	62/321363	PCT/CN2016/079566 4/18/2016		62/298019	62/294550	62/290015	62/256262	62/253232	62/253209	62/203142	62/180113	PCT/CN2015/081809	62/169046
	4/12/2016	4/18/2016		2/22/2016	2/12/2016	2/2/2016	11/17/2015	11/10/2015	11/10/2015	8/10/2015	6/16/2015	6/18/2015	6/1/2015
ROOM TEMPERATURE IONIC LIQUID AS FAST EPOXY	SILOXANE-OXYALKYLENE COPOLYMER SURFACTANT COMPOSITIONS	Epoxy Modified Cement Composition	ANHYDRIDE ACCELERATORS FOR CURING BIO-BASED EPOXY RESINS	BENZYLATED MANNICH BASE CURING AGENTS, COMPOSITIONS, AND METHODS	POLYCARBAMIDE RESINS FOR METAL COATING APPLICATIONS	AMIDOAMINE AND POLYAMIDE CURING AGENTS, COMPOSITIONS, AND METHODS	Nitrogen-Containing Heterocyclic Epoxy Curing Agents, Compositions and Methods	Substituted Phenol Aldehyde Scavengers for Polyurethane Foams	Amidoamines and Polyamides: Aldehyde Scavengers for Polyurethane Foams	Composition for Penetrating Sugar Based Delivery System	Aldehyde Scavengers Mixtures for Polyurethane Foams	Trimerization Catalysts from Sterically Hindered Salts and Tertiary Amines Having Isocyanate Reactive Groups	Reactive Amine Catalysts for Polyurethane Applications
	9650	9630		9630	9630	9630	9630	9650	9650	9620	9650	9650	9650

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Cooperation Treaty

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Docket Number Country Name Status Description Application Number Application Number Application Date 06970 United States ISSUED 10/424119 4/25/2003 06970 United States ISSUED 10/424119 4/4/2011 China P.R. PENDING 201180018471.X 4/4/2011 Germany ISSUED 11715118.3 4/4/2011 Korea South ISSUED 11715118.3 4/4/2011 Russian Federation ISSUED 2011-504934 4/4/2011 Russian Federation ISSUED 2012-504934 4/4/2011 Russian Federation ISSUED 2012-48094 4/4/2011 Russian Federation ISSUED 2012-48094 4/4/2011 O7430ZPD Korea South PENDING 13/035383 2/25/2011 O7430ZPD Korea South PENDING 10-2014-7018850 4/4/2011 O7430ZPD Korea South PENDING 10-2014-7035677 4/4/2011 Brazil PENDING 11762693.5 8/3/2012 <
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Country Name Status Description Application Number United States ISSUED 10/424119 Brazil PENDING 1120120259210 China P.R. PENDING 201180018471.X France ISSUED 11715118.3 Germany ISSUED 11715118.3 Japan ISSUED 2013-504934 Korea South ISSUED 2012148041 United States ISSUED 2012148041 United States PENDING 2015-047007 Korea South ISSUED 10-2014-7018850 Korea South PENDING 10-2014-7035677 Brazil PENDING 10-2014-7035677 Brazil PENDING 10-2014-703561.4
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Country Name Status Description Application Number United States ISSUED 10/424119 Brazil PENDING 1120120259210 China P.R. PENDING 201180018471.X France ISSUED 11715118.3 Germany ISSUED 11715118.3 Great Britain ISSUED 11715118.3 Japan ISSUED 2013-504934 Korea South ISSUED 10-2012-7029766 Russian Federation ISSUED 2012148041
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Country Name Status Description Application Number United States ISSUED 10/424119 Brazil PENDING 1120120259210 China P.R. PENDING 201180018471.X
Country Name Status Description Application Number United States ISSUED 10/424119 Brazil PENDING 1120120259210
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1	12/5/2007 PHARMACEUTICALS, INC.	12/5/2007	69937679.3	4/15/1999	99917541.7	ISSUED	Germany	07734
	ROVI GmbH AND UNIVERA							
1	GMBH	4/29/2009 GMBH	1899715	6/28/2006	06763913.8	ISSUED	Switzerland	
	ROVI GmbH AND GEMATRIA TEST LAB							
1	GMBH	4/29/2009 GMBH	1899715	6/28/2006	06763913.8	ISSUED	Spain	
	ROVI GmbH AND GEMATRIA TEST LAB							
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	ROVI GmbH AND GEMATRIA TEST LAB							
1	GMBH	4/29/2009 GMBH	1899715	6/28/2006	502009901751129	ISSUED	Italy	
	ROVI GmbH AND GEMATRIA TEST LAB							
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	ROVI GmbH AND GEMATRIA TEST LAB							

RECORDED: 08/30/2018