

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

RELEASE BY SECURED PARTY

CONVEYING PARTY DATA

Name	Execution Date
Deutsche Bank Trust Company Americas, as Collateral Agent (f/k/a Bankers Trust Company, as Collateral Agent)	02/02/2011

RECEIVING PARTY DATA

Name:	Huntsman International LLC
Street Address:	500 Huntsman Way
City:	Salt Lake City
State/Country:	UTAH
Postal Code:	84108

Name:	Huntsman Advanced Materials LLC
Street Address:	500 Huntsman Way
City:	Salt Lake City
State/Country:	UTAH
Postal Code:	84108

Name:	Huntsman Advanced Materials Americas LLC
Street Address:	500 Huntsman Way
City:	Salt Lake City
State/Country:	UTAH
Postal Code:	84108

Name:	Huntsman Ethylemeamines LLC
Street Address:	500 Huntsman Way
City:	Salt Lake City
State/Country:	UTAH
Postal Code:	84108

Name:	Huntsman Petrochemical LLC

OP \$9680.00 5011926

501431122

PATENT
REEL: 025765 FRAME: 0853

Street Address:	500 Huntsman Way
City:	Salt Lake City
State/Country:	UTAH
Postal Code:	84108

PROPERTY NUMBERS Total: 242

Property Type	Number
Patent Number:	5011926
Patent Number:	5071980
Patent Number:	5091585
Patent Number:	5099073
Patent Number:	5106458
Patent Number:	5120817
Patent Number:	5124367
Patent Number:	5137860
Patent Number:	5139622
Patent Number:	5140090
Patent Number:	5140097
Patent Number:	5151130
Patent Number:	5153232
Patent Number:	5154804
Patent Number:	5162388
Patent Number:	5168090
Patent Number:	5185455
Patent Number:	5185485
Patent Number:	5189073
Patent Number:	5189075
Patent Number:	5191143
Patent Number:	5205971
Patent Number:	5218005
Patent Number:	5223644
Patent Number:	5235007
Patent Number:	5239048
Patent Number:	5243091
Patent Number:	5248756

Patent Number:	5250632
Patent Number:	5254668
Patent Number:	5262017
Patent Number:	5262551
Patent Number:	5266671
Patent Number:	5274138
Patent Number:	5275996
Patent Number:	5276215
Patent Number:	5278120
Patent Number:	5288873
Patent Number:	5298618
Patent Number:	5300324
Patent Number:	5317076
Patent Number:	5324812
Patent Number:	5324880
Patent Number:	5344984
Patent Number:	5344996
Patent Number:	5349072
Patent Number:	5352835
Patent Number:	5354430
Patent Number:	5354431
Patent Number:	5410077
Patent Number:	5414087
Patent Number:	5436375
Patent Number:	5442034
Patent Number:	5442113
Patent Number:	5444101
Patent Number:	5453160
Patent Number:	5459170
Patent Number:	5464505
Patent Number:	5480955
Patent Number:	5494595
Patent Number:	5504181
Patent Number:	5519065
Patent Number:	5554438

Patent Number:	5565498
Patent Number:	5576409
Patent Number:	5584958
Patent Number:	5594097
Patent Number:	5616677
Patent Number:	5621016
Patent Number:	5631387
Patent Number:	5641385
Patent Number:	5641722
Patent Number:	5646235
Patent Number:	5668217
Patent Number:	5670553
Patent Number:	5710231
Patent Number:	5721315
Patent Number:	5731397
Patent Number:	5759695
Patent Number:	5773382
Patent Number:	5783630
Patent Number:	5817593
Patent Number:	5840782
Patent Number:	5847254
Patent Number:	5861051
Patent Number:	5877227
Patent Number:	5877331
Patent Number:	5900441
Patent Number:	5900442
Patent Number:	5912382
Patent Number:	5929256
Patent Number:	5939592
Patent Number:	5942576
Patent Number:	5945368
Patent Number:	5948447
Patent Number:	5952529
Patent Number:	5958192
Patent Number:	5959032

Patent Number:	5962144
Patent Number:	5962618
Patent Number:	5962699
Patent Number:	5962748
Patent Number:	5965667
Patent Number:	5968993
Patent Number:	5972174
Patent Number:	5985999
Patent Number:	5993528
Patent Number:	6005121
Patent Number:	6013755
Patent Number:	6017615
Patent Number:	6023001
Patent Number:	6031048
Patent Number:	6037382
Patent Number:	6037516
Patent Number:	6040284
Patent Number:	6046343
Patent Number:	6057443
Patent Number:	6060625
Patent Number:	6083897
Patent Number:	6090245
Patent Number:	6093496
Patent Number:	6093773
Patent Number:	6093854
Patent Number:	6100311
Patent Number:	6100351
Patent Number:	6120654
Patent Number:	6121338
Patent Number:	6127480
Patent Number:	6133481
Patent Number:	6133484
Patent Number:	6133492
Patent Number:	6136497
Patent Number:	6140416

Patent Number:	6146574
Patent Number:	6147134
Patent Number:	6159915
Patent Number:	6162776
Patent Number:	6166281
Patent Number:	6169061
Patent Number:	6177232
Patent Number:	6191317
Patent Number:	6207725
Patent Number:	6210452
Patent Number:	6211258
Patent Number:	6214914
Patent Number:	6245825
Patent Number:	6248802
Patent Number:	6294071
Patent Number:	6300505
Patent Number:	6319962
Patent Number:	6335378
Patent Number:	6335379
Patent Number:	6339110
Patent Number:	6340559
Patent Number:	6346204
Patent Number:	6346573
Patent Number:	6350403
Patent Number:	6369009
Patent Number:	6372811
Patent Number:	6376698
Patent Number:	6384240
Patent Number:	6387223
Patent Number:	6395103
Patent Number:	6399736
Patent Number:	6403665
Patent Number:	6413696
Patent Number:	6413697
Patent Number:	6417135

Patent Number:	6417241
Patent Number:	6420311
Patent Number:	6420327
Patent Number:	6420482
Patent Number:	6433032
Patent Number:	6433034
Patent Number:	6441240
Patent Number:	6455601
Patent Number:	6458969
Patent Number:	6465606
Patent Number:	6476237
Patent Number:	6479593
Patent Number:	6482292
Patent Number:	6486224
Patent Number:	6488808
Patent Number:	6500784
Patent Number:	6506813
Patent Number:	6514190
Patent Number:	6515045
Patent Number:	6518474
Patent Number:	6528549
Patent Number:	6531536
Patent Number:	6534555
Patent Number:	6548464
Patent Number:	6548726
Patent Number:	6552121
Patent Number:	6562776
Patent Number:	6586164
Patent Number:	6586380
Patent Number:	6590005
Patent Number:	6593387
Patent Number:	6593495
Patent Number:	6596677
Patent Number:	6603042
Patent Number:	6605684

Patent Number:	6608012
Patent Number:	6617369
Patent Number:	6627761
Patent Number:	6630430
Patent Number:	6653257
Patent Number:	6673212
Patent Number:	6700028
Patent Number:	6703033
Patent Number:	6710203
Patent Number:	6727292
Patent Number:	6730810
Patent Number:	6750310
Patent Number:	6762279
Patent Number:	6765035
Patent Number:	6774153
Patent Number:	6793855
Patent Number:	6806342
Patent Number:	6821476
Patent Number:	6881783
Patent Number:	6884825
Patent Number:	6887830
Patent Number:	6887839
Patent Number:	6888030
Patent Number:	6946503
Patent Number:	6995127
Patent Number:	7008914
Patent Number:	7012043
Patent Number:	7022871
Patent Number:	7049265
Patent Number:	7074963
Patent Number:	7078475
Patent Number:	7169268
Patent Number:	7169824
Patent Number:	7182841
Patent Number:	7196033

Patent Number:	7202284
Patent Number:	7297660
Patent Number:	7307136
Patent Number:	7351859

CORRESPONDENCE DATA

Fax Number: (800)516-6304

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 614-280-3303

Email: Michael.Violet@wolterskluwer.com

Correspondent Name: Michael Violet

Address Line 1: 4400 Easton Commons Way, Suite 125

Address Line 2: CT Corporation

Address Line 4: Columbus, OHIO 43219

NAME OF SUBMITTER:

James P. Murphy

Total Attachments: 77

source=PATENTRELEASE#page1.tif
source=PATENTRELEASE#page2.tif
source=PATENTRELEASE#page3.tif
source=PATENTRELEASE#page4.tif
source=PATENTRELEASE#page5.tif
source=PATENTRELEASE#page6.tif
source=PATENTRELEASE#page7.tif
source=PATENTRELEASE#page8.tif
source=PATENTRELEASE#page9.tif
source=PATENTRELEASE#page10.tif
source=PATENTRELEASE#page11.tif
source=PATENTRELEASE#page12.tif
source=PATENTRELEASE#page13.tif
source=PATENTRELEASE#page14.tif
source=PATENTRELEASE#page15.tif
source=PATENTRELEASE#page16.tif
source=PATENTRELEASE#page17.tif
source=PATENTRELEASE#page18.tif
source=PATENTRELEASE#page19.tif
source=PATENTRELEASE#page20.tif
source=PATENTRELEASE#page21.tif
source=PATENTRELEASE#page22.tif
source=PATENTRELEASE#page23.tif
source=PATENTRELEASE#page24.tif
source=PATENTRELEASE#page25.tif
source=PATENTRELEASE#page26.tif
source=PATENTRELEASE#page27.tif
source=PATENTRELEASE#page28.tif
source=PATENTRELEASE#page29.tif
source=PATENTRELEASE#page30.tif
source=PATENTRELEASE#page31.tif
source=PATENTRELEASE#page32.tif

source=PATENTRELEASE#page33.tif
source=PATENTRELEASE#page34.tif
source=PATENTRELEASE#page35.tif
source=PATENTRELEASE#page36.tif
source=PATENTRELEASE#page37.tif
source=PATENTRELEASE#page38.tif
source=PATENTRELEASE#page39.tif
source=PATENTRELEASE#page40.tif
source=PATENTRELEASE#page41.tif
source=PATENTRELEASE#page42.tif
source=PATENTRELEASE#page43.tif
source=PATENTRELEASE#page44.tif
source=PATENTRELEASE#page45.tif
source=PATENTRELEASE#page46.tif
source=PATENTRELEASE#page47.tif
source=PATENTRELEASE#page48.tif
source=PATENTRELEASE#page49.tif
source=PATENTRELEASE#page50.tif
source=PATENTRELEASE#page51.tif
source=PATENTRELEASE#page52.tif
source=PATENTRELEASE#page53.tif
source=PATENTRELEASE#page54.tif
source=PATENTRELEASE#page55.tif
source=PATENTRELEASE#page56.tif
source=PATENTRELEASE#page57.tif
source=PATENTRELEASE#page58.tif
source=PATENTRELEASE#page59.tif
source=PATENTRELEASE#page60.tif
source=PATENTRELEASE#page61.tif
source=PATENTRELEASE#page62.tif
source=PATENTRELEASE#page63.tif
source=PATENTRELEASE#page64.tif
source=PATENTRELEASE#page65.tif
source=PATENTRELEASE#page66.tif
source=PATENTRELEASE#page67.tif
source=PATENTRELEASE#page68.tif
source=PATENTRELEASE#page69.tif
source=PATENTRELEASE#page70.tif
source=PATENTRELEASE#page71.tif
source=PATENTRELEASE#page72.tif
source=PATENTRELEASE#page73.tif
source=PATENTRELEASE#page74.tif
source=PATENTRELEASE#page75.tif
source=PATENTRELEASE#page76.tif
source=PATENTRELEASE#page77.tif

**OMNIBUS LIMITED RELEASE OF
SECURITY INTEREST IN INTELLECTUAL PROPERTY**

WHEREAS, pursuant to the instruments set forth in Exhibit A (as amended, restated, supplemented or otherwise modified from time to time, the "HI Grants"), Huntsman International LLC (under its prior name, as applicable, as set forth in Exhibit A) ("HI") granted to Deutsche Bank Trust Company Americas (under its prior name, as applicable, as set forth in Exhibit A, and in the capacity set forth next to its name in Exhibit A) ("DB") a continuing security interest in all of HI's right, title and interest in and to the collateral specified in the applicable HI Grant;

WHEREAS, pursuant to the instruments set forth in Exhibit B (as amended, restated, supplemented or otherwise modified from time to time, the "HAML Grants"), Huntsman Advanced Materials LLC (under its prior name, as applicable, as set forth in Exhibit B) ("HAML") granted to DB (under its prior name, as applicable, as set forth in Exhibit B, and in the capacity set forth next to its name in Exhibit B) a continuing security interest in all of HAML's right, title and interest in and to the collateral specified in the applicable HAML Grant;

WHEREAS, pursuant to the instruments set forth in Exhibit C (as amended, restated, supplemented or otherwise modified from time to time, the "HAMAL Grants"), Huntsman Advanced Materials Americas LLC (under its prior name, as applicable, as set forth in Exhibit C) ("HAMAL") granted to DB (under its prior name, as applicable, as set forth in Exhibit C, and in the capacity set forth next to its name in Exhibit C) a continuing security interest in all of HAMAL's right, title and interest in and to the collateral specified in the applicable HAMAL Grant;

WHEREAS, pursuant to the instruments set forth in Exhibit D (as amended, restated, supplemented or otherwise modified from time to time, the "HEL Grants"), Huntsman Ethyleneamines LLC (under its prior name, as applicable, as set forth in Exhibit D) ("HEL") granted to DB (under its prior name, as applicable, as set forth in Exhibit D, and in the capacity set forth next to its name in Exhibit D) a continuing security interest in all of HEL's right, title and interest in and to the collateral specified in the applicable HEL Grant;

WHEREAS, pursuant to the instruments set forth in Exhibit E (as amended, restated, supplemented or otherwise modified from time to time, the "HPL Grants"), Huntsman Petrochemical LLC (under its prior name, as applicable, as set forth in Exhibit E) ("HPL") granted to DB (under its prior name, as applicable, as set forth in Exhibit E, and in the capacity set forth next to its name in Exhibit E) a continuing security interest in all of HPL's right, title and interest in and to the collateral specified in the applicable HPL Grant (collectively, the HI Grants, the HAML Grants, the HAMAL Grants, the HEL Grants and the HPL Grants, the "Grants", and HI, HAML, HAMAL, HEL and HPL, the "Grantors");

WHEREAS, the continuing security interests granted pursuant to the Grants include patents and patent applications as specified in Exhibits A through E (the "Listed Patents"), trademark registrations and trademark applications as specified in Exhibits A through E (the "Listed Trademarks") and copyright registrations and copyright applications as specified in Exhibits A through E (the "Listed Copyrights"), in each case as set forth with the applicable Grant;

WHEREAS, each Grant was recorded in favor of the DB with the United States Patent and Trademark Office as set forth on Exhibits A through E attached hereto with respect to the Listed Patents and the Listed Trademarks;

WHEREAS, each Grant was recorded in favor of DB with the United States Copyright Office as set forth on Exhibits A through E attached hereto, with respect to the Listed Copyrights;

WHEREAS, each Grantor has requested that DB release its security interest in and to the Listed Patents, Listed Trademarks, Listed Copyrights and all other collateral specified in the Grants (collectively, the "Released Collateral").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

1. DB hereby releases to the applicable Grantor, without covenant or warranty, express or implied, of any kind and without recourse to it, all of DB's security interest in and to the Released Collateral that was granted pursuant to the Grants. The Grants are hereby deemed to be terminated in their entirety.

2. DB acknowledges and affirms that all of the obligations of the Grantors under the Grants are hereby discharged.

3. This release shall be governed by and construed in accordance with the laws of the State of New York, except to the extent that the release of security interests hereunder is governed by the laws of a jurisdiction other than the State of New York.

[Signature and notarization page follows.]

IN WITNESS WHEREOF, the parties hereto have caused this release to be executed by
their respective duly authorized representative on this 2nd day of February 2011,
~~2010.~~

DEUTSCHE BANK TRUST COMPANY AMERICAS

By: 

Name:

Title:

Jmayra Laucella

Vice President

By: 

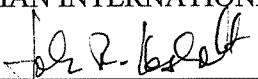
Name:

Title:

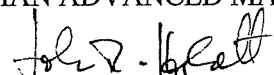
Evelyn Thierry

Director

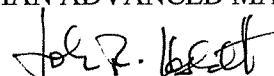
HUNTSMAN INTERNATIONAL LLC

By: 
Name: John R. Heskett
Title: Vice President, Planning and Treasurer

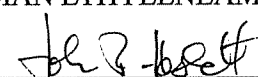
HUNTSMAN ADVANCED MATERIALS LLC

By: 
Name: John R. Heskett
Title: Vice President, Planning and Treasurer

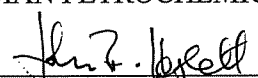
HUNTSMAN ADVANCED MATERIALS AMERICAS LLC

By: 
Name: John R. Heskett
Title: Vice President, Planning and Treasurer

HUNTSMAN ETHYLENEAMINES LLC

By: 
Name: John R. Heskett
Title: Vice President, Planning and Treasurer

HUNTSMAN PETROCHEMICAL LLC

By: 
Name: John R. Heskett
Title: Vice President, Planning and Treasurer

Acknowledged:

JPMORGAN CHASE BANK, N.A.

By: Peter S. Predun

Name:

Title:

Peter S. Predun
Executive Director

EXHIBIT A
Huntsman International LLC Grants

Patent Grants

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	6/30/1999	Huntsman ICI Chemicals LLC	Bankers Trust Company, as Collateral Agent	8/27/1999	010197/0627

Country Name	Patent Number	Grant Date	Title
United States	5106458	4/21/1992	PROPYLENE OXIDE PURIFIED BY REMOVAL OF METHYL FORMATE USING A BASIC RESIN TO CONVERT METHYL FORMATE TO FORMIC ACID AND METHANOL.
United States	5191143	3/2/1993	Preparation of Isobutylene
United States	5243091	9/7/1993	METHOD FOR THE MANUFACTURE AND RECOVERY OF METHYL TERTIARY BUTYL ETHER
United States	5274138	12/28/1993	EPOXIDATION PROCESS FOR MANUFACTURE OF OLEFIN OXIDE AND ALCOHOL MULTIPLE STAGE EPOXIDATION OF OLEFINS, E.G., PROPYLENE, WITH TERT.-BUTYL HYDROPEROXIDE TO INCREASE YIELD OF PROPYLENE OXIDE.
United States	5139622	8/18/1992	PROPYLENE OXIDE PURIFIED BY EXTRACTIVE DISTILLATION WITH TRIETHYLENE GLYCOL TO REMOVE WATER AND OXYGENATED IMPURITIES, E.G., ACETONE AND METHANOL.
United States	5154804	0/13/1992	Removal of water, acetone and methanol from propylene oxide by extractive distillation

Country Name	Patent Number	Grant Date	Title
United States	5262017	11/16/1993	PROPYLENE OXIDE PURIFIED BY FOUR-STAGE DISTILLATION PROCESS.
United States	5349072	9/20/1994	Staged epoxidation of propylene with recycle
United States	5410077	4/25/1995	CONTROLLED EPOXIDATION OF PROPYLENE
United States	5354430	10/11/1994	PROPYLENE OXIDE/METHYL TERT.-BUTYL ETHER PROCESS: PROPYLENE OXIDE PURIFICATION
			BY PLURAL STAGE DISTILLATION.
United States	5354431	10/11/1994	Plural stage drying and purification of propylene oxide
United States	5436375	7/25/1995	PEROXIDATION OF ISOBUTANE WITH OXYGEN IN A VERTICAL REACTOR. REACTION OF ISOBUTANE WITH OXYGEN
United States	5464505	11/7/1995	USE OF PROPYLENE OXIDE ADDUCTS IN THE PURIFICATION OF PROPYLENE OXIDE BY EXTRACTIVE DISTILLATION
United States	5453160	9/26/1995	USE OF MIXED POLYOXYPROPYLENE GLYCOLS IN THE EXTRACTIVE DISTILLATION OF PROPYLENE OXIDE

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	7/23/2003	Huntsman International LLC	Deutsche Bank Trust Company Americas (f/k/a Bankers Trust Company), as Collateral Agent	8/21/2003	015334/0554

Country Name	Patent Number	Grant Date	Title
United States	5106458	4/21/1992	PROPYLENE OXIDE PURIFIED BY REMOVAL OF METHYL FORMATE USING A BASIC RESIN TO CONVERT METHYL FORMATE TO FORMIC ACID AND METHANOL.
United States	5191143	3/2/1993	Preparation of Isobutylene
United States	5243091	9/7/1993	METHOD FOR THE MANUFACTURE AND RECOVERY OF METHYL TERTIARY BUTYL ETHER
United States	5274138	12/28/1993	EPOXIDATION PROCESS FOR MANUFACTURE OF OLEFIN OXIDE AND ALCOHOL
			MULTIPLE STAGE EPOXIDATION OF OLEFINS, E.G., PROPYLENE, WITH TERT.-BUTYL HYDROPEROXIDE TO INCREASE YIELD OF PROPYLENE OXIDE.
			PROPYLENE OXIDE PURIFIED BY EXTRACTIVE DISTILLATION WITH TRIETHYLENE GLYCOL TO REMOVE WATER AND OXYGENATED IMPURITIES, E.G., ACETONE AND METHANOL.
United States	5139622	8/18/1992	Removal of water, acetone and methanol from propylene oxide by extractive distillation
United States	5154804	0/13/1992	PROPYLENE OXIDE PURIFIED BY FOUR-STAGE DISTILLATION PROCESS.
United States	5262017	11/16/1993	
United States	5349072	9/20/1994	Staged epoxidation of propylene with recycle

Country Name	Patent Number	Grant Date	Title
United States	5410077	4/25/1995	CONTROLLED EPOXIDATION OF PROPYLENE
United States	5354430	10/11/1994	PROPYLENE OXIDE/METHYL TERT.-BUTYL ETHER PROCESS: PROPYLENE OXIDE PURIFICATION BY PLURAL STAGE DISTILLATION.
United States	5354431	10/11/1994	Plural stage drying and purification of propylene oxide
United States	5436375	7/25/1995	PEROXIDATION OF ISOBUTANE WITH OXYGEN IN A VERTICAL REACTOR. REACTION OF ISOBUTANE WITH OXYGEN
United States	5464505	11/7/1995	USE OF PROPYLENE OXIDE ADDUCTS IN THE PURIFICATION OF PROPYLENE OXIDE BY EXTRACTIVE DISTILLATION
United States	5453160	9/26/1995	USE OF MIXED POLYOXYPROPYLENE GLYCOLS IN THE EXTRACTIVE DISTILLATION OF PROPYLENE OXIDE
United States	5958192	9/28/1999	PURIFICATION OF PROPYLENE OXIDE USING ETHYLENE GLYCOL MONOMETHYL ETHER AS AN EXTRACTIVE DISTILLATION AGENT
United States	5939592	8/17/1999	METHODS FOR DECOMPOSING ESTERS AND PURIFYING ALCOHOLS
United States	6037516	3/14/2000	METHOD FOR REMOVAL OF OXYGENATE IMPURITIES FROM ORGANIC CHEMICAL STREAMS
United States	6023001	2/8/2000	IMPROVED PEROXIDATION OPERATION BY PRESSURE CONTROL. PEROXIDE PRODUCTION
United States	6133484	10/17/2000	METHODS FOR DECOMPOSING ESTERS AND PURIFYING ALCOHOLS
United States	6518474	2/11/2003	PROCESS FOR PRODUCING ISOBUTYLENE FROM TERTIARY BUTYL ALCOHOL
United States	5124367	6/23/1992	AN ISOCYANATE-REACTIVE POLYMER, ESPECIALLY A FLEXIBLE FOAM POLYOL, CONTAINING DISPERSED SOLID FIRE RETARDANT, ESPECIALLY MELAMINE, AND A FATTY ACID ESTER OR AMIDE AS ANTI-SETTLING AGENT.
United States	5278120	1/11/1994	Catalyst Composition

Country Name	Patent Number	Grant Date	Title
United States	5584958	12/17/1996	Polyisocyanate adhesive and sealant systems
United States	6245825	6/12/2001	PRODUCTION OF FLEXIBLE URETHANE FOAMS BY REACTING 4,4'-MDI OR VARIANT THEREOF WITH POLYETHER POLYOL COMPOSITION HAVING AVERAGE OXYETHYLENE CONTENT OF 60-85 % BY WEIGHT
United States	6376698	4/23/2002	PRODUCTION OF FLEXIBLE URETHANE FOAMS BY REACTING 4,4'-MDI OR VARIANT THEREOF WITH POLYETHER POLYOL COMPOSITION HAVING AVERAGE OXYETHYLENE CONTENT OF 60-85 % BY WEIGHT
United States	5840782	11/24/1998	MICROCELLULAR ELASTOMERS ARE PREPARED USING A PREPOLYMER BASED ON A POLYETHER POLYOL (20-35%W EO OF WHICH AT LEAST 75% TEP), WATER AS BLOWING AGENT AND POLYESTER POLYOL
United States	5565498	10/15/1996	Process for making flexible foams.
United States	5594097	1/14/1997	Novel polyether polyols.
United States	5621016	4/15/1997	Polyisocyanate compositions and low density flexible polyurethane foams produced therewith
United States	5459170	10/17/1995	
United States	5444101	8/22/1995	PROCESS FOR THE PREPARATION OF A RIGID POLYURETHANE OR URETHANE-MODIFIED POLYISOCYANURATE FOAM IN THE PRESENCE OF A BLOWING AGENT MIXTURE COMPRISING CYCLOPENTANE AND A CERTAIN AMOUNT (C BEING THE MO
United States	5519065	5/21/1996	PROCESS FOR THE PREPARATION OF A RIGID POLYURETHANE OR URETHANE-MODIFIED POLYISOCYANURATE FOAM IN THE PRESENCE OF A BLOWING AGENT MIXTURE COMPRISING CYCLOPENTANE AND A CERTAIN AMOUNT (C BEING THE MO
United States	5710231	1/20/1998	ISOCYANATE-REACTIVE COMPOSITIONS CONTAINING INTERNAL MOLD RE
United States	5554438	9/10/1996	Self release binder system
United States	5900442	5/4/1999	New flexible polyurethane foam

Country Name	Patent Number	Grant Date	Title
United States	6335379	1/1/2002	New flexible polyurethane foam
United States	6433034	8/13/2002	New flexible polyurethane foam
United States	5576409	11/19/1996	Internal mold release compositions
United States	5670553	9/23/1997	Internal mold release compositions
United States	5993528	11/30/1999	Internal mold release compositions
United States	5900441	5/4/1999	Process for preparing a flexible polyurethane foam.
United States	7307136	12/11/2000	Polyurethane elastomers
United States	6339110	1/15/2002	Process for rigid polyurethane foams
United States	5968993	10/19/1999	Microcellular elastomeric polyurethane foams.
United States	6147134	11/14/2000	Process for preparing rigid and flexible polyurethane foams.
United States	6346204	2/12/2002	Process for preparing rigid and flexible polyurethane foams.
United States	6100311	8/8/2000	Process for preparing rigid and flexible polyurethane foams.
United States	6211258	4/3/2001	Process for preparing rigid and flexible polyurethane foams.
United States	6403665	6/11/2002	Rigid polyurethane foams.
United States	6528549	3/4/2003	Rigid polyurethane foams.
United States	6207725	3/27/2001	Rigid polyurethane foams.
United States	6133481	10/17/2000	Isocyanate Compositions for Low Density Polyurethane Foam

Country Name	Patent Number	Grant Date	Title
United States	6037382	3/14/2000	process for preparing flexible polyurethane foam.
United States	6248802	6/19/2001	Isocyanate compositions for blown polyurethane foams.
United States	6455601	9/24/2002	Isocyanate compositions for blown polyurethane foams
United States	6590005	7/8/2003	Isocyanate compositions for blown polyurethane foams
United States	5877227	3/2/1999	Low density flexible polyurethane foams
United States	6372811	4/16/2002	Flame resistant rigid polyurethane foams blown with hydrofluorocarbons
United States	6335378	1/1/2002	Process for rigid polyurethane foams
United States	6121338	9/19/2000	Process for rigid polyurethane foams
United States	6433032	8/13/2002	Process for rigid foams
United States	6319962	11/20/2001	Hydrocarbon blown rigid polyurethane foams having improved flammability performance
United States	6793855	9/21/2004	Polyisocyanurate compositions and composites
United States	6486224	11/7/2002	Polyurethane elastomers having improved hydrolysis resistance
United States	6417241	7/9/2002	Process for preparing a flexible polyurethane foam
United States	7202284	4/10/2007	FOAMED THERMOPLASTIC POLYURETHANES
United States	6881783	4/19/2005	Process for making a PIPA-polyol
United States	6506813	1/14/2003	Process for making cold-setting flexible foams, polyol composition and reaction system useful therefor, foams thus obtained.
United States	6750310	6/15/2004	Polyisocyanate compositions for fast cure
United States	6765035	7/20/2004	Process for making rigid and flexible polyurethane foams containing a fire-retardant
United States	6593387	7/15/2003	Process for making high resilience foams, and a reaction system useful therefor

Country Name	Patent Number	Grant Date	Title
United States	6617369	9/9/2003	Process for making visco-elastic foams polyols blend and reaction system useful therefor
United States	7022871	4/4/2006	process for the synthesis of polycarbamates
United States	6821476	11/23/2004	Gas assisted injection moulding
United States	6774153	8/10/2004	Process for preparing a free rise or slabstock flexible polyurethane foam
United States	6531536	3/11/2003	Isocyanate compositions containing d-limonene
United States	7169824	1/30/2007	Process for preparing a flexible polyurethane foam.
United States	6727292	3/27/2004	Manufacture of MDI-TDI Based Flexible Polyurethane Foams.
United States	6806342	10/19/2004	Process for preparing a polyurethane material.
United States	6762279	7/13/2004	Polyol processing
United States	6884825	4/26/2005	Process for making a flexible polyurethane foam.
United States	5223644	6/29/1993	Nitrosamine Inhibition
United States	5442113	8/15/1995	Nitrosamine and nitrite inhibition
United States	6500784	12/31/2002	HERBICIDAL COMPOSITIONS AND SURFACTANT CONCENTRATES
United States	6653257	11/25/2003	HERBICIDAL COMPOSITIONS AND SURFACTANT CONCENTRATES

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	7/13/2004	Huntsman International LLC	Deutsche Bank Trust Company Americas, as Collateral Agent	8/4/2004	015612/0937

Country Name	Patent Number	Grant Date	Title
United States	5106458	4/21/1992	PROPYLENE OXIDE PURIFIED BY REMOVAL OF METHYL FORMATE USING A BASIC RESIN TO CONVERT METHYL FORMATE TO FORMIC ACID AND METHANOL.
United States	5191143	3/2/1993	Preparation of Isobutylene
United States	5243091	9/7/1993	METHOD FOR THE MANUFACTURE AND RECOVERY OF METHYL TERTIARY BUTYL ETHER
United States	5274138	12/28/1993	EPOXIDATION PROCESS FOR MANUFACTURE OF OLEFIN OXIDE AND ALCOHOL
			MULTIPLE STAGE EPOXIDATION OF OLEFINS, E.G., PROPYLENE, WITH TERT.-BUTYL HYDROPEROXIDE TO INCREASE YIELD OF PROPYLENE OXIDE.
United States	5139622	8/18/1992	PROPYLENE OXIDE PURIFIED BY EXTRACTIVE DISTILLATION WITH TRIETHYLENE GLYCOL TO REMOVE WATER AND OXYGENATED IMPURITIES, E.G., ACETONE AND METHANOL.
United States	5154804	0/13/1992	Removal of water, acetone and methanol from propylene oxide by extractive distillation
United States	5262017 ¹	11/16/1993	PROPYLENE OXIDE PURIFIED BY FOUR-STAGE DISTILLATION PROCESS.
United States	5349072	9/20/1994	Staged epoxidation of propylene with recycle

Country Name	Patent Number	Grant Date	Title
United States	5410077	4/25/1995	CONTROLLED EPOXIDATION OF PROPYLENE
United States	5354430	10/11/1994	PROPYLENE OXIDE/METHYL TERT.-BUTYL ETHER PROCESS: PROPYLENE OXIDE PURIFICATION BY PLURAL STAGE DISTILLATION.
United States	5354431	10/11/1994	Plural stage drying and purification of propylene oxide
United States	5436375	7/25/1995	PEROXIDATION OF ISOBUTANE WITH OXYGEN IN A VERTICAL REACTOR. REACTION OF ISOBUTANE WITH OXYGEN
United States	5464505	11/7/1995	USE OF PROPYLENE OXIDE ADDUCTS IN THE PURIFICATION OF PROPYLENE OXIDE BY EXTRACTIVE DISTILLATION
United States	5453160	9/26/1995	USE OF MIXED POLYOXYPROPYLENE GLYCOLS IN THE EXTRACTIVE DISTILLATION OF PROPYLENE OXIDE
United States	5958192	9/28/1999	PURIFICATION OF PROPYLENE OXIDE USING ETHYLENE GLYCOL MONOMETHYL ETHER AS AN EXTRACTIVE DISTILLATION AGENT
United States	5939592	8/17/1999	METHODS FOR DECOMPOSING ESTERS AND PURIFYING ALCOHOLS
United States	6037516	3/14/2000	METHOD FOR REMOVAL OF OXYGENATE IMPURITIES FROM ORGANIC CHEMICAL STREAMS
United States	6023001	2/8/2000	IMPROVED PEROXIDATION OPERATION BY PRESSURE CONTROL. PEROXIDE PRODUCTION
United States	6133484	10/17/2000	METHODS FOR DECOMPOSING ESTERS AND PURIFYING ALCOHOLS
United States	6518474	2/11/2003	PROCESS FOR PRODUCING ISOBUTYLENE FROM TERTIARY BUTYL ALCOHOL
United States	7182841	2/27/2007	Purification of Solvents used for the Purification of Alkylene Oxide
United States	5223644	6/29/1993	Nitrosamine Inhibition
United States	5442113	8/15/1995	Nitrosamine and nitrite inhibition

Country Name	Patent Number	Grant Date	Title
United States	6500784	12/31/200 2	HERBICIDAL COMPOSITIONS AND SURFACTANT CONCENTRATES
United States	6653257	11/25/200 3	HERBICIDAL COMPOSITIONS AND SURFACTANT CONCENTRATES

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	10/14/2004	Huntsman LLC	Deutsche Bank Trust Americas, as Collateral Agent	1/27/2005	015621/0894

Country Name	Patent Number	Grant Date	Title
United States	5945368	8/31/1999	MOLYBDENUM MODIFIED VANADIUM-PHOSPHATE OXIDE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5480955	1/2/1996	ALIPHATIC SPRAY POLYUREA ELASTOMERS.

Trademark Grants

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	7/13/2004	Huntsman International LLC	Deutsche Bank Trust Company Americas, as Collateral Agent	7/29/2004	3016/0098

Country Name	Registration Number	Registration Date	Mark
United States	696247	4/19/1960	EMPICOL
United States	889566	4/21/1970	EMPIGEN
United States	703083	8/23/1960	EMPILAN
United States	1765176	4/13/1993	LAUREX
United States	2846527	5/25/2004	MILLIFOAM
United States	1767833	4/27/1993	NANSA

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	7/23/2003	Huntsman International LLC (f/k/a Huntsman ICI Chemicals LLC)	Deutsche Bank Trust Company Americas (f/k/a Bankers Trust Company), as Collateral Agent	3/22/2004	3085/0893

Country Name	Registration Number	Registration Date	Mark
United States	2250108	6/1/1999	ACOUSTIFLEX
United States	696247	4/19/1960	EMPICOL
United States	889566	4/21/1970	EMPIGEN
United States	703083	8/23/1960	EMPILAN
United States	2676524	1/21/2003	IROCOAT
United States	1557996	9/26/1989	KRYSTALFLEX
United States	2792036	12/9/2003	KRYSTALGRAN
United States	1765176	4/13/1993	LAUREX
United States	2848019	6/1/2004	LINESTAR
United States	1767833	4/27/1993	NANSA
United States	1457057	9/15/1987	RIMLINE
United States	1793317	9/21/1993	RIMLINE

Country Name	Registration Number	Registration Date	Mark
United States	1440366	5/26/1987	RUBIFLEX
United States	2469953	7/17/2001	RUBILON
United States	1808700	12/7/1993	RUBINATE
United States	1757839	3/16/1993	RUBINOL
United States	1792270	9/14/1993	RUBITHERM
United States	3419673	4/29/2008	SMARTLITE
United States	1853408	9/13/1994	AVALON
United States	2294301	11/23/1999	AVALON
United States	1660453	10/15/1991	DALTOCEL
United States	1835081	5/10/1994	DALTOFOAM
United States	1644140	5/14/1991	DALTOLAC
United States	1651244	7/23/1991	DALTOPED

EXHIBIT B
Huntsman Advanced Materials LLC Grants

Patent Grants

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	9/30/2002	Huntsman Polymers Corporation	Deutsche Bank Trust Company Americas (formerly known as Bankers Trust Company), as Collateral Agent	10/15/2002	013386/0840

Country Name	Patent Number	Grant Date	Title
United States	6017615	1/25/2000	FILM PRODUCT COMPRISING NOVEL POLYOLEFINS
United States	6100351	8/8/2000	OLEFIN POLYMERIZATION PROCESS AND PRODUCTS THEREOF

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	10/14/2004	Huntsman Polymers Corporation	Deutsche Bank Trust Company Americas, as Grantee	1/28/2005	015629/0639

Country Name	Patent Number	Grant Date	Title
United States	6017615	1/25/2000	FILM PRODUCT COMPRISING NOVEL POLYOLEFINS
United States	6100351	8/8/2000	OLEFIN POLYMERIZATION PROCESS AND PRODUCTS THEREOF
United States	5948447	9/7/1999	METHOD AND APPARATUS FOR PRODUCT RECOVERY OF POLYOLEFINS (RECOVERY OF STICKY POLYMERS USING TRANSPORTER TECHNOLOGY)

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	9/30/2003	Huntsman Polymers Corporation	Deutsche Bank Trust Company Americas (formerly known as Bankers Trust Company), as Collateral Agent	11/25/2003	014718/0013

Country Name	Patent Number	Grant Date	Title
United States	6017615	1/25/2000	FILM PRODUCT COMPRISING NOVEL POLYOLEFINS
United States	6100351	8/8/2000	OLEFIN POLYMERIZATION PROCESS AND PRODUCTS THEREOF
United States	5948447	9/7/1999	METHOD AND APPARATUS FOR PRODUCT RECOVERY OF POLYOLEFINS (RECOVERY OF STICKY POLYMERS USING TRANSPORTER TECHNOLOGY)

EXHIBIT C
Huntsman Advanced Materials Americas LLC Grants

Patent Grants

Instrument	Instrument Date	Grantors	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Patents	6/30/2003	Vantico Inc. Vantico A&T US Inc.	Deutsche Bank AG, New York Branch, as Grantee	8/19/2003	013897/0080

Country Name	Patent Number	Grant Date	Title
United States	6346573	2/12/2002	Reactive resin manufacture
United States	6177232	1/23/2001	Sedimentation Stabilized Radiation-curable filled compositions
United States	6350403	2/26/2002	Photocurable Compositions with Alicyclic Epoxides of High Monomer Purity. Viscosity stabilization of radiation-curable filled compositions
United States	6136497	10/24/2000	Liquid, radiation-curable composition, especially for producing flexible cured articles by stereolithography
United States	6413697	7/2/2002	Liquid, radiation-curable composition, especially for producing flexible cured articles by stereolithography
United States	6413696	7/2/2002	Liquid, radiation-curable composition, especially for producing cured articles by stereolithography having high heat deflection temperatures
United States	6515045	2/4/2003	Adhesive Composition

EXHIBIT D
Huntsman Ethyleneamines LLC Grants

Patent Grants

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	7/23/2003	Huntsman Ethyleneamines Ltd.	Deutsche Bank Trust Company Americas (f/k/a Bankers Trust Company), as Collateral Agent	8/31/2003	014402/0566

Country Name	Patent Number	Grant Date	Title
United States	5205971	4/27/1993	MANUFACTURE OF NON-WHITEWARE CERAMIC ARTICLES
United States	5151130	9/29/1992	AMINE BASED CONSISTENCY REDUCERS FOR GYPSUM STUCCO SLURRIES
United States	5300324	4/5/1994	PROCESS TO INCREASE THE DRYING RATE OF A GLAZE FOR CERAMICS
United States	5641385	6/24/1997	USE OF ETHYLENEAMINE FOR WASHING PULP CONTAINING LIGNIN
United States	5817593	10/6/1998	CATALYST AND PROCESS FOR PRODUCING AMINES
United States	5952529	9/14/1999	CATALYST AND PROCESS FOR PRODUCING AMINES.
United States	6441240 ¹	8/27/2002	METHOD FOR INHIBITING THE DEPOSITION OF WHITE PITCH IN PAPER PRODUCTION

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	7/13/2004	Huntsman Ethyleneamines Ltd.	Deutsche Bank Trust Company Americas, as Collateral Agent	7/29/2004	015603/0726

Country Name	Patent Number	Grant Date	Title
United States	5205971	4/27/1993	MANUFACTURE OF NON-WHITEWARE CERAMIC ARTICLES
United States	5151130	9/29/1992	AMINE BASED CONSISTENCY REDUCERS FOR GYPSUM STUCCO SLURRIES
United States	5300324	4/5/1994	PROCESS TO INCREASE THE DRYING RATE OF A GLAZE FOR CERAMICS
United States	5641385	6/24/1997	USE OF ETHYLENEAMINE FOR WASHING PULP CONTAINING LIGNIN
United States	5817593	10/6/1998	CATALYST AND PROCESS FOR PRODUCING AMINES
United States	5952529	9/14/1999	CATALYST AND PROCESS FOR PRODUCING AMINES.
United States	6441240	8/27/2002	METHOD FOR INHIBITING THE DEPOSITION OF WHITE PITCH IN PAPER PRODUCTION

Trademark Grants

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	7/23/2003	Huntsman Ethyleneamines Ltd.	Deutsche Bank Trust Company Americas (f/k/a Bankers Trust Company), as Collateral Agent	8/21/2003	2806/0905

Country Name	Registration Number	Registration Date	Mark
United States	2311880	1/25/2000	CASTMATE
United States	2497221	10/9/2001	MORMATE

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest	7/13/2004	Huntsman Ethyleneamines Ltd.	Deutsche Bank Trust Company Americas (f/k/a Bankers Trust Company), as Collateral Agent	7/29/2004	3016/0206

Country Name	Registration Number	Registration Date	Mark
United States	2311880	1/25/2000	CASTMATE
United States	2497221	10/9/2001	MORMATE

EXHIBIT E
Huntsman Petrochemical LLC Grants

Patent Grants

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Collateral Assignment of Patents, Trademarks and Related Rights	12/15/1993	Huntsman Specialty Chemicals Corporation	Bankers Trust Company, as Agent	1/10/1994	006830/0929

Country Name	Patent Number	Grant Date	Title
United States	5137860	8/11/1992	PROCESS FOR THE TRANSFORMATION OF VANADIUM/PHOSPHORUS MIXED OXIDE CATALYST PRECURSORS INTO ACTIVE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5185455	2/9/1993	METHOD FOR IMPROVING THE PERFORMANCE OF VPO CATALYSTS
United States	5185485	2/9/1993	PROCESS FOR PREPARING ALKYL BENZENE
United States	5275996	1/4/1994	PHOSPHOROUS/VANADIUM OXIDE CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5168090	12/1/1992	SHAPED OXIDATION CATALYST STRUCTURES FOR THE PRODUCTION OF MALEIC ANHYDRIDE

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Stock Pledge, Security Agreement and Collateral Assignment of Option Agreement	4/21/1994	Huntsman Corporation (formerly Texaco Chemical Company)	United States Trust Company of New York, as Collateral Agent	6/8/1994	006994/0001

Country Name	Patent Number	Grant Date	Title
United States	5480955	1/2/1996	ALIPHATIC SPRAY POLYUREA ELASTOMERS.

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Assignment for Security – Patents	1/29/1996	Huntsman Petrochemical Corporation	Bankers Trust Company, as Collateral Trustee	8/8/1996	008067/0311

Country Name	Patent Number	Grant Date	Title
United States	5120817	6/9/1992	EPOXY RESIN CURATIVES: CONDENSATION PRODUCTS OF PHENOL, FORMALDEHYDE AND POLYOXYETHYLENEDIAMINES AS RAPID CURING COMPOSITIONS USEFUL IN COATINGS ADHESIVES AND ENCAPSULATION APPLICATIONS.
United States	5266671	11/30/1993	CHEMICALLY SIZED MINERAL PARTICLES IN SPRAY POLYUREA ELASTOMER SYSTEMS.
United States	5099073	3/24/1992	Catalytic process for the production of diketone derivatives of polyoxypropylene glycols
United States	5011926	4/30/1991	NICKEL-BASED DUAL CATALYST SYSTEM TO SUPPRESS CARBON DIOXIDE FORMATION DURING SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AMINE. AMINATION.
United States	5140090	8/18/1992	ALIPHATIC POLYUREAS PREPARED FROM POLYOXYALKYLENE POLYAMINES, TETRAMETHYL ALIPHATIC XYLENE DIISOCYANATE AND SYM-DIALKYLETHYL ENEDIAMINES.
United States	5071980	12/10/1991	NICKEL-BASED DUAL CATALYST SYSTEMS EFFECTIVE IN SUPPRESSING CARBON DIOXIDE FORMATION DURING DIETHYLENE GLYCOL AMINATION. NICKEL/RUTHENIUM DUAL CATALYST SYSTEMS FOR SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AND SUPPRESSION OF CARBON DIOXIDE FORMATION.
United States	5153232	10/6/1992	WATER BLOWN POLYUREA FOAMS BASED ON ALIPHATIC PRIMARY POLYOXYALKYLENEAMINES. FOAMED POLYUREA ELASTOMER-RIGID AND CLOSED-CELLED.

Country Name	Patent Number	Grant Date	Title
United States	5218005	6/8/1993	POLYUREA ELASTOMERS MADE USING POLYAMIDE/CARBONYL ADDUCTS AS CHAIN EXTENDERS. SPRAY POLYUREA ELASTOMERS PREPARED USING LOW MOLECULAR WEIGHT POLYOXYALKYLENEAMINE FORMALDEHYDE ADDUCTS AS CHAIN EXTENDERS.
United States	5189075	2/23/1993	POLYUREA ELASTOMERS MADE USING POLYOXYALKYLENE TETRA- OR HIGHER FUNCTIONAL AMINE CHAIN EXTENDERS
United States	5248756	9/28/1993	Crystallization agent for bisphenol-A polycarbonate
United States	5162388	11/10/1992	ALIPHATIC POLYUREA ELASTOMERS. CYCLOALIPHATIC DIAMINES, E.G., 1,3-DIAMINO CYCLOHEXANE OR ISOPHORONEDIAMINE, AS CHAIN EXTENDERS IN ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5235007	8/10/1993	Epoxy curing agents
United States	5414087	5/9/1995	Preparation of N-alkylpiperazines
United States	5254668	10/19/1993	POLY(AMIDE-ETHER-AMIDE) ABA TRIBLOCK COPOLYMERS PREPARED FROM NYLON-6 AND POLYOXYALKYLENE GLYCOL BASED JEFFAMINE AMINES OR POLY(TETRAHYDROFURAN) BASED AMINES. POLYAMIDOPOLY FUNCTIONAL AMINE FROM LACTAM AND ETHER AMINE.
United States	5298618	3/29/1994	Macrocyclic oxamides
United States	5288873	2/22/1994	AMINATED ALKOXYLATED IMIDAZOLIDONES
United States	5189073	2/23/1993	PROCESS FOR THE PRODUCTION OF EXPANDED MATERIALS BASED ON POLYUREA ELASTOMERS
United States	5250632	10/5/1993	HEIMD-CONTAINING POLYETHERAMINE CURATIVE FOR FLEXIBLE, TOUGHENED PRODUCTS
United States	5276215	1/4/1994	ALKYLPHENOL SYNTHESIS USING ZEOLITES AS CATALYSTS, PARTICULARLY DEALUMINIZED Y-ZEOLITES. ALKYLPHENOLS PREPARED FROM PHENOL AND CORRESPONDING OLEFINS USING ZEOLITE MOLECULAR SIEVES AS CATALYSTS, E.G., DEALUMINIZED Y-ZEOLITES.
United States	5317076	5/31/1994	POLYUREA ELASTOMER WITH REDUCED MOISTURE VAPOR TRANSMISSION. SPRAY POLYUREA ELASTOMERS BASED ON AN AMINATED 1,2-BUTYLENE OXIDE POLYOL WITH IMPROVED MOISTURE VAPOR TRANSMISSION.

Country Name	Patent Number	Grant Date	Title
United States	5721315	2/24/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5783630	7/21/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5324812	6/28/1994	WATER SOLUBLE POLYAMIDES FROM POLYALKYLENE GLYCOL DIAMINES AND POLY-CARBOXYLIC ACIDS. PREPARED FROM DIMER ACIDS AND POLYETHER AMINES.
United States	5442034	8/15/1995	ALIPHATIC SPRAY POLYUREA ELASTOMERS CONTAINING ORGANIC CARBONATES TO IMPROVE PROCESSING CHARACTERISTICS
United States	5494595	2/27/1996	OIL SOLUBLE POLYETHERS
United States	5641722	6/24/1997	IMPROVED HIGH PERFORMANCE VPO CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5631387	5/20/1997	PROCESS AND APPARATUS FOR THE PREPARATION AND RECOVERY OF MALEIC ANHYDRIDE
United States	5352835	10/4/1994	SUPPORTED CATALYSTS FOR AMINATION
United States	5239048	8/24/1993	Aromatic polyoxyalkylene amidoamines
United States	5344996	9/6/1994	Catalyst removal from alcohol alkoxylates using acid clays
United States	5344984	9/6/1994	Method for preparing twin-tailed" polyoxyalkylene tertiary amines"
United States	5504181	4/2/1996	ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5140097	8/18/1992	THERMOPLASTIC THERMOSETTABLE POLYAMIDE FROM POLY (OXYTETRAMETHYLENE) DIAMINE AND POLY(OXYTETRAMETHYLENE) OLIGOMER POLYAMINE. POLYAMIDES PREPARED FROM DICARBOXYLIC ACIDS, E.G., ADIPIC, SEBACIC OR TEREPHTHALIC ACID, AND A MIXTURE OF POLY(OXY TETRAMETHYLENE)DIAMINE, ITS OLIGOMERS AND OPTIONALLY A SATURATED AMINO ACID, E.G. ,
United States	5262551	11/16/1993	PROCESS FOR ETHYLENE EPOXIDATION.
United States	5324880	6/28/1994	PROCESS FOR DEHYDROGENATION OF PARAFFIN
United States	5091585	2/25/1992	Continuous preparatin of tertiary aliphatic methyl amines

Country Name	Patent Number	Grant Date	Title
United States	5137860	8/11/1992	PROCESS FOR THE TRANSFORMATION OF VANADIUM/PHOSPHORUS MIXED OXIDE CATALYST PRECURSORS INTO ACTIVE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5185455	2/9/1993	METHOD FOR IMPROVING THE PERFORMANCE OF VPO CATALYSTS
United States	5185485	2/9/1993	PROCESS FOR PREPARING ALKYL BENZENE
United States	5275996	1/4/1994	PHOSPHOROUS/VANADIUM OXIDE CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5168090	12/1/1992	SHAPED OXIDATION CATALYST STRUCTURES FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5945368	8/31/1999	MOLYBDENUM MODIFIED VANADIUM-PHOSPHATE OXIDE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Memorandum of Security Interest – Patents	10/23/1996	Huntsman Petrochemical Corporation	Bankers Trust Company, as Collateral Trustee	11/06/1996	008209/0244

Country Name	Patent Number	Grant Date	Title
United States	5120817	6/9/1992	EPOXY RESIN CURATIVES: CONDENSATION PRODUCTS OF PHENOL, FORMALDEHYDE AND POLYOXYETHYLENEDIAMINES AS RAPID CURING COMPOSITIONS USEFUL IN COATINGS ADHESIVES AND ENCAPSULATION APPLICATIONS.
United States	5266671	11/30/1993	CHEMICALLY SIZED MINERAL PARTICLES IN SPRAY POLYUREA ELASTOMER SYSTEMS.
United States	5099073	3/24/1992	Catalytic process for the production of diketone derivatives of polyoxypropylene glycols
United States	5011926	4/30/1991	NICKEL-BASED DUAL CATALYST SYSTEM TO SUPPRESS CARBON DIOXIDE FORMATION DURING SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AMINE. AMINATION.
United States	5140090	8/18/1992	ALIPHATIC POLYUREAS PREPARED FROM POLYOXYALKYLENE POLYAMINES, TETRAMETHYL ALIPHATIC XYLENE DIISOCYANATE AND SYM-DIALKYLETHYL ENEDIAMINES.
United States	5071980	12/10/1991	NICKEL-BASED DUAL CATALYST SYSTEMS EFFECTIVE IN SUPPRESSING CARBON DIOXIDE FORMATION DURING DIETHYLENE GLYCOL AMINATION. NICKEL/RUTHENIUM DUAL CATALYST SYSTEMS FOR SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AND SUPPRESSION OF CARBON DIOXIDE FORMATION.
United States	5153232	10/6/1992	WATER BLOWN POLYUREA FOAMS BASED ON ALIPHATIC PRIMARY POLYOXYALKYLENEAMINES. FOAMED POLYUREA ELASTOMER-RIGID AND CLOSED-CELLED.

Country Name	Patent Number	Grant Date	Title
United States	5218005	6/8/1993	POLYUREA ELASTOMERS MADE USING POLYAMIDE/CARBONYL ADDUCTS AS CHAIN EXTENDERS. SPRAY POLYUREA ELASTOMERS PREPARED USING LOW MOLECULAR WEIGHT POLYOXYALKYLENEAMINE FORMALDEHYDE ADDUCTS AS CHAIN EXTENDERS.
United States	5189075	2/23/1993	POLYUREA ELASTOMERS MADE USING POLYOXYALKYLENE TETRA- OR HIGHER FUNCTIONAL AMINE CHAIN EXTENDERS
United States	5248756	9/28/1993	Crystallization agent for bisphenol-A polycarbonate
United States	5162388	11/10/1992	ALIPHATIC POLYUREA ELASTOMERS. CYCLOALIPHATIC DIAMINES, E.G., 1,3-DIAMINO CYCLOHEXANE OR ISOPHORONEDIAMINE, AS CHAIN EXTENDERS IN ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5235007	8/10/1993	Epoxy curing agents
United States	5414087	5/9/1995	Preparation of N-alkylpiperazines
United States	5254668	10/19/1993	POLY(AMIDE-ETHER-AMIDE) ABA TRIBLOCK COPOLYMERS PREPARED FROM NYLON-6 AND POLYOXYALKYLENE GLYCOL BASED JEFFAMINE AMINES OR POLY(TETRAHYDROFURAN) BASED AMINES. POLYAMIDOPOLY FUNCTIONAL AMINE FROM LACTAM AND ETHER AMINE.
United States	5298618	3/29/1994	Macrocyclic oxamides
United States	5288873	2/22/1994	AMINATED ALKOXYLATED IMIDAZOLIDONES
United States	5189073	2/23/1993	PROCESS FOR THE PRODUCTION OF EXPANDED MATERIALS BASED ON POLYUREA ELASTOMERS
United States	5250632	10/5/1993	HEIMD-CONTAINING POLYETHERAMINE CURATIVE FOR FLEXIBLE, TOUGHENED PRODUCTS
United States	5276215	1/4/1994	ALKYLPHENOL SYNTHESIS USING ZEOLITES AS CATALYSTS, PARTICULARLY DEALUMINIZED Y-ZEOLITES. ALKYLPHENOLS PREPARED FROM PHENOL AND CORRESPONDING OLEFINS USING ZEOLITE MOLECULAR SIEVES AS CATALYSTS, E.G., DEALUMINIZED Y-ZEOLITES.
United States	5317076	5/31/1994	POLYUREA ELASTOMER WITH REDUCED MOISTURE VAPOR TRANSMISSION. SPRAY POLYUREA ELASTOMERS BASED ON AN AMINATED 1,2-BUTYLENE OXIDE POLYOL WITH IMPROVED MOISTURE VAPOR TRANSMISSION.

Country Name	Patent Number	Grant Date	Title
United States	5721315	2/24/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5783630	7/21/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5324812	6/28/1994	WATER SOLUBLE POLYAMIDES FROM POLYALKYLENE GLYCOL DIAMINES AND POLY-CARBOXYLIC ACIDS. PREPARED FROM DIMER ACIDS AND POLYETHER AMINES.
United States	5442034	8/15/1995	ALIPHATIC SPRAY POLYUREA ELASTOMERS CONTAINING ORGANIC CARBONATES TO IMPROVE PROCESSING CHARACTERISTICS
United States	5494595	2/27/1996	OIL SOLUBLE POLYETHERS
United States	5641722	6/24/1997	IMPROVED HIGH PERFORMANCE VPO CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5631387	5/20/1997	PROCESS AND APPARATUS FOR THE PREPARATION AND RECOVERY OF MALEIC ANHYDRIDE
United States	5352835	10/4/1994	SUPPORTED CATALYSTS FOR AMINATION
United States	5239048	8/24/1993	Aromatic polyoxyalkylene amidoamines
United States	5344996	9/6/1994	Catalyst removal from alcohol alkoxylates using acid clays
United States	5344984	9/6/1994	Method for preparing twin-tailed" polyoxyalkylene tertiary amines"
United States	5504181	4/2/1996	ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5140097	8/18/1992	THERMOPLASTIC THERMOSETTABLE POLYAMIDE FROM POLY (OXYTETRAMETHYLENE) DIAMINE AND POLY(OXYTETRAMETHYLENE) OLIGOMER POLYAMINE. POLYAMIDES PREPARED FROM DICARBOXYLIC ACIDS, E.G., ADIPIC, SEBACIC OR TEREPHTHALIC ACID, AND A MIXTURE OF POLY(OXY TETRAMETHYLENE)DIAMINE, ITS OLIGOMERS AND OPTIONALLY A SATURATED AMINO ACID, E.G.,
United States	5262551	11/16/1993	PROCESS FOR ETHYLENE EPOXIDATION.
United States	5324880	6/28/1994	PROCESS FOR DEHYDROGENATION OF PARAFFIN
United States	5959032	9/28/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	6031048	2/29/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE

Country Name	Patent Number	Grant Date	Title
United States	5668217	9/16/1997	AMIDOAMINE MODIFICATION OF POLYPROPYLENE
United States	5646235	7/8/1997	REDUCTIVE ALKYLATION OF POLYAMINES
United States	5847254	12/8/1998	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE CONTAINING MORDENITES
United States	5731397	3/24/1998	POLYUREA SPRAY RAILCAR LINING SYSTEMS WITH HIGH FLEXIBILITY AND IMPROVED IMPACT AND ABRASION RESISTANCE.
United States	5616677	4/1/1997	PREPARATION OF SPRAYABLE ALIPHATIC POLYUREA ELASTOMERS HAVING IMPROVED PROPERTIES
United States	5945368	8/31/1999	MOLYBDENUM MODIFIED VANADIUM-PHOSPHATE OXIDE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	9/30/2002	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas (formerly known as Bankers Trust Company), as Collateral Agent	10/15/2002	0133627/0237

Country Name	Patent Number	Grant Date	Title
United States	5120817	6/9/1992	EPOXY RESIN CURATIVES: CONDENSATION PRODUCTS OF PHENOL, FORMALDEHYDE AND POLYOXYETHYLENEDIAMINES AS RAPID CURING COMPOSITIONS USEFUL IN COATINGS ADHESIVES AND ENCAPSULATION APPLICATIONS.
United States	5266671	11/30/1993	CHEMICALLY SIZED MINERAL PARTICLES IN SPRAY POLYUREA ELASTOMER SYSTEMS.
United States	5099073	3/24/1992	Catalytic process for the production of diketone derivatives of polyoxypropylene glycols
United States	5011926	4/30/1991	NICKEL-BASED DUAL CATALYST SYSTEM TO SUPPRESS CARBON DIOXIDE FORMATION DURING SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AMINE. AMINATION.
United States	5140090	8/18/1992	ALIPHATIC POLYUREAS PREPARED FROM POLYOXYALKYLENE POLYAMINES, TETRAMETHYL ALIPHATIC XYLENE DIISOCYANATE AND SYM-DIALKYLETHYL ENEDIAMINES.
United States	5071980	12/10/1991	NICKEL-BASED DUAL CATALYST SYSTEMS EFFECTIVE IN SUPPRESSING CARBON DIOXIDE FORMATION DURING DIETHYLENE GLYCOL AMINATION. NICKEL/RUTHENIUM DUAL CATALYST SYSTEMS FOR SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AND SUPPRESSION OF CARBON DIOXIDE FORMATION.

Country Name	Patent Number	Grant Date	Title
United States	5153232	10/6/1992	WATER BLOWN POLYUREA FOAMS BASED ON ALIPHATIC PRIMARY POLYOXYALKYLENEAMINES. FOAMED POLYUREA ELASTOMER-RIGID AND CLOSED-CELLED.
United States	5218005	6/8/1993	POLYUREA ELASTOMERS MADE USING POLYAMIDE/CARBONYL ADDUCTS AS CHAIN EXTENDERS. SPRAY POLYUREA ELASTOMERS PREPARED USING LOW MOLECULAR WEIGHT POLYOXYALKYLENEAMINE FORMALDEHYDE ADDUCTS AS CHAIN EXTENDERS.
United States	5189075	2/23/1993	POLYUREA ELASTOMERS MADE USING POLYOXYALKYLENE TETRA- OR HIGHER FUNCTIONAL AMINE CHAIN EXTENDERS
United States	5248756	9/28/1993	Crystallization agent for bisphenol-A polycarbonate
United States	5162388	11/10/1992	ALIPHATIC POLYUREA ELASTOMERS. CYCLOALIPHATIC DIAMINES, E.G., 1,3-DIAMINO CYCLOHEXANE OR ISOPHORONEDIAMINE, AS CHAIN EXTENDERS IN ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5235007	8/10/1993	Epoxy curing agents
United States	5414087	5/9/1995	Preparation of N-alkylpiperazines
United States	5254668	10/19/1993	POLY(AMIDE-ETHER-AMIDE) ABA TRIBLOCK COPOLYMERS PREPARED FROM NYLON-6 AND POLYOXYALKYLENE GLYCOL BASED JEFFAMINE AMINES OR POLY(TETRAHYDROFURAN) BASED AMINES. POLYAMIDOPOLY FUNCTIONAL AMINE FROM LACTAM AND ETHER AMINE.
United States	5298618	3/29/1994	Macrocyclic oxamides
United States	5288873	2/22/1994	AMINATED ALKOXYLATED IMIDAZOLIDONES
United States	5189073	2/23/1993	PROCESS FOR THE PRODUCTION OF EXPANDED MATERIALS BASED ON POLYUREA ELASTOMERS
United States	5250632	10/5/1993	HEIMD-CONTAINING POLYETHERAMINE CURATIVE FOR FLEXIBLE, TOUGHENED PRODUCTS
United States	5276215	1/4/1994	ALKYLPHENOL SYNTHESIS USING ZEOLITES AS CATALYSTS, PARTICULARLY DEALUMINIZED Y-ZEOLITES. ALKYLPHENOLS PREPARED FROM PHENOL AND CORRESPONDING OLEFINS USING ZEOLITE MOLECULAR SIEVES AS CATALYSTS, E.G., DEALUMINIZED Y-ZEOLITES.

Country Name	Patent Number	Grant Date	Title
United States	5317076	5/31/1994	POLYUREA ELASTOMER WITH REDUCED MOISTURE VAPOR TRANSMISSION. SPRAY POLYUREA ELASTOMERS BASED ON AN AMINATED 1,2-BUTYLENE OXIDE POLYOL WITH IMPROVED MOISTURE VAPOR TRANSMISSION.
United States	5721315	2/24/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5783630	7/21/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5324812	6/28/1994	WATER SOLUBLE POLYAMIDES FROM POLYALKYLENE GLYCOL DIAMINES and POLY-CARBOXYLIC ACIDS. PREPARED FROM DIMER ACIDS AND POLYETHER AMINES.
United States	5442034	8/15/1995	ALIPHATIC SPRAY POLYUREA ELASTOMERS CONTAINING ORGANIC CARBONATES TO IMPROVE PROCESSING CHARACTERISTICS
United States	5494595	2/27/1996	OIL SOLUBLE POLYETHERS
United States	5641722	6/24/1997	IMPROVED HIGH PERFORMANCE VPO CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5631387	5/20/1997	PROCESS AND APPARATUS FOR THE PREPARATION AND RECOVERY OF MALEIC ANHYDRIDE
United States	5352835	10/4/1994	SUPPORTED CATALYSTS FOR AMINATION
United States	5239048	8/24/1993	Aromatic polyoxyalkylene amidoamines
United States	5344996	9/6/1994	Catalyst removal from alcohol alkoxylates using acid clays
United States	5344984	9/6/1994	Method for preparing twin-tailed" polyoxyalkylene tertiary amines"
United States	5504181	4/2/1996	ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5140097	8/18/1992	THERMOPLASTIC THERMOSETTABLE POLYAMIDE FROM POLY (OXYTETRAMETHYLENE) DIAMINE AND POLY(OXYTETRAMETHYLENE) OLIGOMER POLYAMINE. POLYAMIDES PREPARED FROM DICARBOXYLIC ACIDS, E.G., ADIPIC, SEBACIC OR TEREPHTHALIC ACID, AND A MIXTURE OF POLY(OXY TETRAMETHYLENE)DIAMINE, ITS OLIGOMERS AND OPTIONALLY A SATURATED AMINO ACID, E.G. ,
United States	5262551	11/16/1993	PROCESS FOR ETHYLENE EPOXIDATION.
United States	5324880	6/28/1994	PROCESS FOR DEHYDROGENATION OF PARAFFIN

Country Name	Patent Number	Grant Date	Title
United States	5091585	2/25/1992	Continuous preparatin of tertiary aliphatic methyl amines
United States	5965667	10/12/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6140416	10/31/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	5942576	8/24/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6093773	7/25/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6093496	7/25/2000	POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	6214914	4/10/2001	POLYETHER AMINE MODIFIDATION OF POLYPROPYLENE. POLYETHER MONOAMINE WITH 36-44 ETHYLENE OXIDE UNITS AND 1-6 PROPYLENE OXIDE UNITS.
United States	6465606	10/15/2002	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE MONOAMINE.
United States	5985999	11/16/1999	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	6127480	10/3/2000	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN.
United States	6420482	7/16/2002	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	5759695	6/2/1998	POLYUREA ELASTOMER SYSTEMS WITH IMPROVED ADHESION TO SUBSTRATES
United States	5962144	10/5/1999	POLYUREA ELASTOMER SYSTEMS WITH IMPROVED ADHESION TO SUBSTRATES
United States	6057443	5/2/2000	DIMORPHOLINOETHER HAVING IMPROVED ISOCYANATE STABILITY
United States	5972174	10/26/1999	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE
United States	6013755	1/11/2000	A METHOD OF PREPARING AN ALIPHATIC POLYUREA SPRAY ELASTOMER SYSTEM
United States	6399736	6/4/2002	METHOD OF PREPARING SPRAY ELASTOMER SYSTEMS

Country Name	Patent Number	Grant Date	Title
United States	6605684	8/12/2003	METHOD OF PREPARING SPRAY ELASTOMER SYSTEMS.
United States	5912382	6/15/1999	HYDROXYALKYL CARBAMATE COMPOSITIONS AND PROCESSES FOR MANUFACTURING SAME
United States	6040284	3/21/2000	Paint coatings remover comprising propylene carbonate and hydrogen peroxide
United States	6146574	11/14/2000	ARTICLE MANUFACTURE USING POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	5877331	3/2/1999	PREVENTION OF CATALYST ATTRITION AND TAR FORMATION IN MANUFACTURE OF MALEIC ANHYDRIDE
United States	5962699	10/5/1999	PROCESS FOR DECOLORIZING ORGANIC CARBONATES
United States	6083897	7/4/2000	SOLUBILIZATION OF LOW 2-PHENYL ALKYL BENZENE SULFONATES
United States	6166281	12/26/2000	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE-CONTAINING MORDENITES
United States	6133492	10/17/2000	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE-CONTAINING MORDENITES
United States	6093854	7/25/2000	A PROCESS FOR PREPARING ALKANOLAMINES FROM POLYOLEFIN EPOXIDES
United States	6593495	7/15/2003	ANHYDRIDE STABILIZATION
United States	6060625	5/9/2000	PROCESS FOR THE PRODUCTION OF ETHERAMINE ALKOXYLATES
United States	6300505	10/9/2001	METHOD AND APPARATUS FOR IMPROVING THE UNIFORMITY OF DISTRIBUTION OF A PHOSPHOROUS-CONTAINING AGENT THROUGHOUT A MALEIC ANHYDRIDE CATALYTIC REACTOR
United States	6369009	4/9/2002	PAINT AND COATING REMOVER.
United States	6586380	7/1/2003	PAINT AND COATING REMOVER.
United States	6552121	4/22/2003	ALKALI-SILICATE POLYISOCYANATE COMPOSITES

Country Name	Patent Number	Grant Date	Title
United States	6159915	12/12/2000	PAINT AND COATING REMOVER
United States	6191317	2/20/2001	PROCESS FOR PREPARATION OF POLYALKYL HYDROXYAROMATICS
United States	6294071	9/25/2001	METHODS FOR FORMING COPPER SOLUTIONS
United States	6417135	7/9/2002	ADVANCES IN DEHYDROGENATION CATALYSIS
United States	6384240	5/7/2002	PROCESS TO PRODUCE PHOTOCHROMIC GRADE FOR THE PURIFICATION OF ALKYLENE CARBONATES
United States	6395103	5/28/2002	DEGREASING COMPOSITIONS
United States	6548726	4/15/2003	REMOVAL OF DEHA FROM A BUTADIENE STREAM
United States	6210452	4/3/2001	FUEL ADDITIVES
United States	6562776	5/13/2003	SOLID ALKYL BENZENE SULFONATES AND CLEANING COMPOSITIONS HAVING ENHANCED WATER HARDNESS TOLERANCE
United States	6420327	7/16/2002	CARBONATE BASED COATING REMOVER
United States	6548464	4/15/2003	PAINT STRIPPER FOR AIRCRAFT AND OTHER MULTICOAT SYSTEMS
United States	6596677	7/22/2003	CLEANING COMPOSITIONS FOR HARD SURFACES (Amended)
United States	6627761	9/30/2003	MULTIFUNCTIONAL CARBONATES AND DERIVATIVES
United States	6488808	12/3/2002	STYRENE COPOLYMERS IN DE-INKING
United States	6340559	1/22/2002	SEMICONDUCTOR DEVELOPING AGENT
United States	6608012	8/19/2003	PROCESS TO REMOVE PAINT AND PRIMER COATINGS FROM THERMOPLASTIC POLYOLEFIN (TPO) SUBSTRATES
United States	6673212	1/6/2004	POLYMERIZATION-INHIBITED DISTILLATION

Country Name	Patent Number	Grant Date	Title
United States	6534555	3/18/2003	CATALYST SYSTEMS FOR POLYURETHANE POLYESTER FOAMS
United States	6479593	11/12/2002	ABSORBENT POLYMER MODIFICATION
United States	7196033	3/27/2007	ADVANCES IN AMINATION CATALYSIS
United States	5962748	10/5/1999	PROCESS FOR PREPARING LOW UNSATURATION POLYETHER POLYOLS.
United States	5962618	10/5/1999	POLYUREA SPRAY RAILCAR LINING SYSTEMS WITH HIGH FLEXIBILITY AND IMPROVED IMPACT AND ABRASION RESISTANCE.
United States	6005121	12/21/1999	HIGH PRODUCTIVITY PROCESS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5773382	6/30/1998	IMPROVED HIGH PERFORMANCE VPO CATALYST AND PROCESS OF PREPARATION THEREOF.
United States	5929256	7/27/1999	MOLYBDENUM MODIFIED VANADIUM-PHOSPHOROUS OXIDE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	6120654	9/19/2000	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE.
United States	6090245	7/18/2000	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE.
United States	5861051	1/19/1999	PROCESS FOR REMOVING CARBON DIOXIDE FROM GAS MIXTURE.
United States	6046343	4/4/2000	PREVENTION OF CATALYST ATTRITION AND TAR FORMATION IN MANUFACTURE OF MALEIC ANHYDRIDE.
United States	6730810	5/4/2004	ANHYDRIDE STABILIZATION.
United States	6603042	8/5/2003	ANHYDRIDE STABILIZATION.
United States	6420311	7/16/2002	POLYETHER DIAMINE BASED SURFACTANT ADJUVANTS AND COMPOSITIONS THEREOF.
United States	6514190	2/4/2003	PRIMARY ALKANOLAMIDES.
United States	6700028	3/2/2004	ADVANCES IN DEHYDROGENATION CATALYSIS.

Country Name	Patent Number	Grant Date	Title
United States	6476237	11/5/2002	PURIFICATION OF ALKYLENE CARBONATES.
United States	6458969	10/1/2002	Process for the purification of alkylene carbonate.
United States	6887830	5/3/2005	SURFACTANT ADJUVANTS USEFUL IN HERBICIDE COMPOSITIONS.
United States	6482292	11/19/2002	STYRENE COPOLYMERS IN DE-INKING
United States	5959032	9/28/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	6031048	2/29/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5668217	9/16/1997	AMIDOAMINE MODIFICATION OF POLYPROPYLENE
United States	5646235	7/8/1997	REDUCTIVE ALKYLATION OF POLYAMINES
United States	5847254	12/8/1998	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE CONTAINING MORDENITES
United States	5731397	3/24/1998	POLYUREA SPRAY RAILCAR LINING SYSTEMS WITH HIGH FLEXIBILITY AND IMPROVED IMPACT AND ABRASION RESISTANCE.
United States	5616677	4/1/1997	PREPARATION OF SPRAYABLE ALIPHATIC POLYUREA ELASTOMERS HAVING IMPROVED PROPERTIES
United States	5137860	8/11/1992	PROCESS FOR THE TRANSFORMATION OF VANADIUM/PHOSPHORUS MIXED OXIDE CATALYST PRECURSORS INTO ACTIVE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5185455	2/9/1993	METHOD FOR IMPROVING THE PERFORMANCE OF VPO CATALYSTS
United States	5185485	2/9/1993	PROCESS FOR PREPARING ALKYL BENZENE
United States	5275996	1/4/1994	PHOSPHOROUS/VANADIUM OXIDE CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5168090	12/1/1992	SHAPED OXIDATION CATALYST STRUCTURES FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5945368	8/31/1999	MOLYBDENUM MODIFIED VANADIUM-PHOSPHATE OXIDE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE

Country Name	Patent Number	Grant Date	Title
United States	6169061	1/2/2001	PAINT AND COATING REMOVER
United States	6630430	10/7/2003	FUEL AND OIL DETERGENTS
United States	6710203	3/23/2004	PREPARATION OF HYDROXYALKYLCARBAMATES FROM 6-MEMBERED CYCLIC CARBONATES.
United States	6995127	2/7/2006	ALKYL TOLUENE SULFONATE DETERGENTS
United States	6703033	3/9/2004	ADVANCES IN TOWELETTES
United States	6387223	5/14/2002	ALKYLENE CARBONATE PROCESS.
United States	5480955	1/2/1996	ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	6586164	7/1/2003	ALTERNATIVE PHOTORESIST STRIPPING COMPOSITIONS

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	9/30/2003	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas (formerly known as Bankers Trust Company), as Collateral Agent	12/4/2003	014782/0186

Country Name	Patent Number	Grant Date	Title
United States	5120817	6/9/1992	EPOXY RESIN CURATIVES: CONDENSATION PRODUCTS OF PHENOL, FORMALDEHYDE AND POLYOXYETHYLENEDIAMINES AS RAPID CURING COMPOSITIONS USEFUL IN COATINGS ADHESIVES AND ENCAPSULATION APPLICATIONS.
United States	5266671	11/30/1993	CHEMICALLY SIZED MINERAL PARTICLES IN SPRAY POLYUREA ELASTOMER SYSTEMS.
United States	5099073	3/24/1992	Catalytic process for the production of diketone derivatives of polyoxypropylene glycols
United States	5011926	4/30/1991	NICKEL-BASED DUAL CATALYST SYSTEM TO SUPPRESS CARBON DIOXIDE FORMATION DURING SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AMINE. AMINATION.
United States	5140090	8/18/1992	ALIPHATIC POLYUREAS PREPARED FROM POLYOXYALKYLENE POLYAMINES, TETRAMETHYL ALIPHATIC XYLENE DIISOCYANATE AND SYM-DIALKYLETHYL ENEDIAMINES.
United States	5071980	12/10/1991	NICKEL-BASED DUAL CATALYST SYSTEMS EFFECTIVE IN SUPPRESSING CARBON DIOXIDE FORMATION DURING DIETHYLENE GLYCOL AMINATION. NICKEL/RUTHENIUM DUAL CATALYST SYSTEMS FOR SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AND SUPPRESSION OF CARBON DIOXIDE FORMATION.

Country Name	Patent Number	Grant Date	Title
United States	5153232	10/6/1992	WATER BLOWN POLYUREA FOAMS BASED ON ALIPHATIC PRIMARY POLYOXYALKYLENEAMINES. FOAMED POLYUREA ELASTOMER-RIGID AND CLOSED-CELLED.
United States	5218005	6/8/1993	POLYUREA ELASTOMERS MADE USING POLYAMIDE/CARBONYL ADDUCTS AS CHAIN EXTENDERS. SPRAY POLYUREA ELASTOMERS PREPARED USING LOW MOLECULAR WEIGHT POLYOXYALKYLENEAMINE FORMALDEHYDE ADDUCTS AS CHAIN EXTENDERS.
United States	5189075	2/23/1993	POLYUREA ELASTOMERS MADE USING POLYOXYALKYLENE TETRA- OR HIGHER FUNCTIONAL AMINE CHAIN EXTENDERS
United States	5248756	9/28/1993	Crystallization agent for bisphenol-A polycarbonate
United States	5162388	11/10/1992	ALIPHATIC POLYUREA ELASTOMERS. CYCLOALIPHATIC DIAMINES, E.G., 1,3-DIAMINO CYCLOHEXANE OR ISOPHORONEDIAMINE, AS CHAIN EXTENDERS IN ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5235007	8/10/1993	Epoxy curing agents
United States	5414087	5/9/1995	Preparation of N-alkylpiperazines
United States	5254668	10/19/1993	POLY(AMIDE-ETHER-AMIDE) ABA TRIBLOCK COPOLYMERS PREPARED FROM NYLON-6 AND POLYOXYALKYLENE GLYCOL BASED JEFFAMINE AMINES OR POLY(TETRAHYDROFURAN) BASED AMINES. POLYAMIDOPOLY FUNCTIONAL AMINE FROM LACTAM AND ETHER AMINE.
United States	5298618	3/29/1994	Macrocyclic oxamides
United States	5288873	2/22/1994	AMINATED ALKOXYLATED IMIDAZOLIDONES
United States	5189073	2/23/1993	PROCESS FOR THE PRODUCTION OF EXPANDED MATERIALS BASED ON POLYUREA ELASTOMERS
United States	5250632	10/5/1993	HEIMD-CONTAINING POLYETHERAMINE CURATIVE FOR FLEXIBLE, TOUGHENED PRODUCTS
United States	5276215	1/4/1994	ALKYLPHENOL SYNTHESIS USING ZEOLITES AS CATALYSTS, PARTICULARLY DEALUMINIZED Y-ZEOLITES. ALKYLPHENOLS PREPARED FROM PHENOL AND CORRESPONDING OLEFINS USING ZEOLITE MOLECULAR SIEVES AS CATALYSTS, E.G., DEALUMINIZED Y-ZEOLITES.

Country Name	Patent Number	Grant Date	Title
United States	5317076	5/31/1994	POLYUREA ELASTOMER WITH REDUCED MOISTURE VAPOR TRANSMISSION. SPRAY POLYUREA ELASTOMERS BASED ON AN AMINATED 1,2-BUTYLENE OXIDE POLYOL WITH IMPROVED MOISTURE VAPOR TRANSMISSION.
United States	5721315	2/24/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5783630	7/21/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5324812	6/28/1994	WATER SOLUBLE POLYAMIDES FROM POLYALKYLENE GLYCOL DIAMINES and POLY-CARBOXYLIC ACIDS. PREPARED FROM DIMER ACIDS AND POLYETHER AMINES.
United States	5442034	8/15/1995	ALIPHATIC SPRAY POLYUREA ELASTOMERS CONTAINING ORGANIC CARBONATES TO IMPROVE PROCESSING CHARACTERISTICS
United States	5494595	2/27/1996	OIL SOLUBLE POLYETHERS
United States	5641722	6/24/1997	IMPROVED HIGH PERFORMANCE VPO CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5631387	5/20/1997	PROCESS AND APPARATUS FOR THE PREPARATION AND RECOVERY OF MALEIC ANHYDRIDE
United States	5352835	10/4/1994	SUPPORTED CATALYSTS FOR AMINATION
United States	5239048	8/24/1993	Aromatic polyoxyalkylene amidoamines
United States	5344996	9/6/1994	Catalyst removal from alcohol alkoxylates using acid clays
United States	5344984	9/6/1994	Method for preparing twin-tailed" polyoxyalkylene tertiary amines"
United States	5504181	4/2/1996	ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5140097	8/18/1992	THERMOPLASTIC THERMOSETTABLE POLYAMIDE FROM POLY (OXYTETRAMETHYLENE) DIAMINE AND POLY(OXYTETRAMETHYLENE) OLIGOMER POLYAMINE. POLYAMIDES PREPARED FROM DICARBOXYLIC ACIDS, E.G., ADIPIC, SEBACIC OR TEREPHTHALIC ACID, AND A MIXTURE OF POLY(OXY TETRAMETHYLENE)DIAMINE, ITS OLIGOMERS AND OPTIONALLY A SATURATED AMINO ACID, E.G.,
United States	5262551	11/16/1993	PROCESS FOR ETHYLENE EPOXIDATION.
United States	5324880	6/28/1994	PROCESS FOR DEHYDROGENATION OF PARAFFIN

Country Name	Patent Number	Grant Date	Title
United States	5091585	2/25/1992	Continuous preparatin of tertiary aliphatic methyl amines
United States	5965667	10/12/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6140416	10/31/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	5942576	8/24/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6093773	7/25/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6093496	7/25/2000	POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	6214914	4/10/2001	POLYETHER AMINE MODIFADATION OF POLYPROPYLENE. POLYETHER MONOAMINE WITH 36-44 ETHYLENE OXIDE UNITS AND 1-6 PROPYLENE OXIDE UNITS.
United States	6465606	10/15/2002	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE MONOAMINE.
United States	5985999	11/16/1999	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	6127480	10/3/2000	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN.
United States	6420482	7/16/2002	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	5759695	6/2/1998	POLYUREA ELASTOMER SYSTEMS WITH IMPROVED ADHESION TO SUBSTRATES
United States	5962144	10/5/1999	POLYUREA ELASTOMER SYSTEMS WITH IMPROVED ADHESION TO SUBSTRATES
United States	6057443	5/2/2000	DIMORPHOLINOETHYLETER HAVING IMPROVED ISOCYANATE STABILITY
United States	5972174	10/26/1999	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE
United States	6013755	1/11/2000	A METHOD OF PREPARING AN ALIPHATIC POLYUREA SPRAY ELASTOMER SYSTEM
United States	6399736	6/4/2002	METHOD OF PREPARING SPRAY ELASTOMER SYSTEMS

Country Name	Patent Number	Grant Date	Title
United States	6605684	8/12/2003	METHOD OF PREPARING SPRAY ELASTOMER SYSTEMS.
United States	5912382	6/15/1999	HYDROXYALKYL CARBAMATE COMPOSITIONS AND PROCESSES FOR MANUFACTURING SAME
United States	6040284	3/21/2000	Paint coatings remover comprising propylene carbonate and hydrogen peroxide
United States	6146574	11/14/2000	ARTICLE MANUFACTURE USING POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	5877331	3/2/1999	PREVENTION OF CATALYST ATTRITION AND TAR FORMATION IN MANUFACTURE OF MALEIC ANHYDRIDE
United States	5962699	10/5/1999	PROCESS FOR DECOLORIZING ORGANIC CARBONATES
United States	6083897	7/4/2000	SOLUBILIZATION OF LOW 2-PHENYL ALKYL BENZENE SULFONATES
United States	6166281	12/26/2000	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE-CONTAINING MORDENITES
United States	6133492	10/17/2000	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE-CONTAINING MORDENITES
United States	6093854	7/25/2000	A PROCESS FOR PREPARING ALKANOLAMINES FROM POLYOLEFIN EPOXIDES
United States	6593495	7/15/2003	ANHYDRIDE STABILIZATION
United States	6060625	5/9/2000	PROCESS FOR THE PRODUCTION OF ETHERAMINE ALKOXYLATES
United States	6300505	10/9/2001	METHOD AND APPARATUS FOR IMPROVING THE UNIFORMITY OF DISTRIBUTION OF A PHOSPHOROUS-CONTAINING AGENT THROUGHOUT A MALEIC ANHYDRIDE CATALYTIC REACTOR
United States	6369009	4/9/2002	PAINT AND COATING REMOVER.
United States	6586380	7/1/2003	PAINT AND COATING REMOVER.
United States	6552121	4/22/2003	ALKALI-SILICATE POLYISOCYANATE COMPOSITES

Country Name	Patent Number	Grant Date	Title
United States	6159915	12/12/2000	PAINT AND COATING REMOVER
United States	6191317	2/20/2001	PROCESS FOR PREPARATION OF POLYALKYL HYDROXYAROMATICS
United States	6294071	9/25/2001	METHODS FOR FORMING COPPER SOLUTIONS
United States	6417135	7/9/2002	ADVANCES IN DEHYDROGENATION CATALYSIS
United States	6384240	5/7/2002	PROCESS TO PRODUCE PHOTOCHROMIC GRADE FOR THE PURIFICATION OF ALKYLENE CARBONATES
United States	6395103	5/28/2002	DEGREASING COMPOSITIONS
United States	6548726	4/15/2003	REMOVAL OF DEHA FROM A BUTADIENE STREAM
United States	6210452	4/3/2001	FUEL ADDITIVES
United States	6562776	5/13/2003	SOLID ALKYL BENZENE SULFONATES AND CLEANING COMPOSITIONS HAVING ENHANCED WATER HARDNESS TOLERANCE
United States	6420327	7/16/2002	CARBONATE BASED COATING REMOVER
United States	6548464	4/15/2003	PAINT STRIPPER FOR AIRCRAFT AND OTHER MULTICOAT SYSTEMS
United States	6596677	7/22/2003	CLEANING COMPOSITIONS FOR HARD SURFACES (Amended)
United States	6627761	9/30/2003	MULTIFUNCTIONAL CARBONATES AND DERIVATIVES
United States	6488808	12/3/2002	STYRENE COPOLYMERS IN DE-INKING
United States	6340559	1/22/2002	SEMICONDUCTOR DEVELOPING AGENT
United States	6608012	8/19/2003	PROCESS TO REMOVE PAINT AND PRIMER COATINGS FROM THERMOPLASTIC POLYOLEFIN (TPO) SUBSTRATES
United States	6673212	1/6/2004	POLYMERIZATION-INHIBITED DISTILLATION

Country Name	Patent Number	Grant Date	Title
United States	6534555	3/18/2003	CATALYST SYSTEMS FOR POLYURETHANE POLYESTER FOAMS
United States	6479593	11/12/2002	ABSORBENT POLYMER MODIFICATION
United States	7196033	3/27/2007	ADVANCES IN AMINATION CATALYSIS
United States	5962748	10/5/1999	PROCESS FOR PREPARING LOW UNSATURATION POLYETHER POLYOLS.
United States	5962618	10/5/1999	POLYUREA SPRAY RAILCAR LINING SYSTEMS WITH HIGH FLEXIBILITY AND IMPROVED IMPACT AND ABRASION RESISTANCE.
United States	6005121	12/21/1999	HIGH PRODUCTIVITY PROCESS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5773382	6/30/1998	IMPROVED HIGH PERFORMANCE VPO CATALYST AND PROCESS OF PREPARATION THEREOF.
United States	5929256	7/27/1999	MOLYBDENUM MODIFIED VANADIUM-PHOSPHOROUS OXIDE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	6120654	9/19/2000	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE.
United States	6090245	7/18/2000	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE.
United States	5861051	1/19/1999	PROCESS FOR REMOVING CARBON DIOXIDE FROM GAS MIXTURE.
United States	6046343	4/4/2000	PREVENTION OF CATALYST ATTRITION AND TAR FORMATION IN MANUFACTURE OF MALEIC ANHYDRIDE.
United States	6730810	5/4/2004	ANHYDRIDE STABILIZATION.
United States	6603042	8/5/2003	ANHYDRIDE STABILIZATION.
United States	6420311	7/16/2002	POLYETHER DIAMINE BASED SURFACTANT ADJUVANTS AND COMPOSITIONS THEREOF.
United States	6514190	2/4/2003	PRIMARY ALKANOLAMIDES.
United States	6700028	3/2/2004	ADVANCES IN DEHYDROGENATION CATALYSIS.

Country Name	Patent Number	Grant Date	Title
United States	6476237	11/5/2002	PURIFICATION OF ALKYLENE CARBONATES.
United States	6458969	10/1/2002	Process for the purification of alkylene carbonate.
United States	6887830	5/3/2005	SURFACTANT ADJUVANTS USEFUL IN HERBICIDE COMPOSITIONS.
United States	6482292	11/19/2002	STYRENE COPOLYMERS IN DE-INKING
United States	5959032	9/28/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	6031048	2/29/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5668217	9/16/1997	AMIDOAMINE MODIFICATION OF POLYPROPYLENE
United States	5646235	7/8/1997	REDUCTIVE ALKYLATION OF POLYAMINES
United States	5847254	12/8/1998	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE CONTAINING MORDENITES
United States	5731397	3/24/1998	POLYUREA SPRAY RAILCAR LINING SYSTEMS WITH HIGH FLEXIBILITY AND IMPROVED IMPACT AND ABRASION RESISTANCE.
United States	5616677	4/1/1997	PREPARATION OF SPRAYABLE ALIPHATIC POLYUREA ELASTOMERS HAVING IMPROVED PROPERTIES
United States	5137860	8/11/1992	PROCESS FOR THE TRANSFORMATION OF VANADIUM/PHOSPHORUS MIXED OXIDE CATALYST PRECURSORS INTO ACTIVE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5185455	2/9/1993	METHOD FOR IMPROVING THE PERFORMANCE OF VPO CATALYSTS
United States	5185485	2/9/1993	PROCESS FOR PREPARING ALKYL BENZENE
United States	5275996	1/4/1994	PHOSPHOROUS/VANADIUM OXIDE CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5168090	12/1/1992	SHAPED OXIDATION CATALYST STRUCTURES FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	6162776	12/19/2000	PAINT AND COATING REMOVER.

Country Name	Patent Number	Grant Date	Title
United States	6887839	5/3/2005	SOLID ALKYL BENZENE SULFONATES AND CLEANING COMPOSITIONS HAVING ENHANCED WATER HARDNESS TOLERANCE
United States	6888030	5/3/2005	ADVANCES IN AMINATION
United States	7012043	3/14/2006	DRILLING FLUIDS
United States	6946503	9/20/2005	AMINE BLEND ACCELERATORS FOR POLYOXYALKYLENEPOLYAMINE CURED EPOXY RESINS
United States	7169268	1/30/2007	COLOR STABILIZATION OF AMINES
United States	7074963	7/11/2006	PREPARATION OF SECONDARY AMINES.
United States	7008914	3/7/2006	ALKYL BENZENE DETERGENTS WITH HIGH 2-ISOMER CONTENT
United States	7049265	5/23/2006	ANION CATALYST SYSTEM FOR FOAMS
United States	7297660	11/20/2007	ALKYLENE CARBONATE ADJUVANTS.
United States	6586164	7/1/2003	ALTERNATIVE PHOTORESIST STRIPPING COMPOSITIONS

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	10/14/2004	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas, as Collateral Agent	1/28/2005	015661/0547

Country Name	Patent Number	Grant Date	Title
United States	5120817	6/9/1992	EPOXY RESIN CURATIVES: CONDENSATION PRODUCTS OF PHENOL, FORMALDEHYDE AND POLYOXYETHYLENEDIAMINES AS RAPID CURING COMPOSITIONS USEFUL IN COATINGS ADHESIVES AND ENCAPSULATION APPLICATIONS.
United States	5266671	11/30/1993	CHEMICALLY SIZED MINERAL PARTICLES IN SPRAY POLYUREA ELASTOMER SYSTEMS.
United States	5099073	3/24/1992	Catalytic process for the production of diketone derivatives of polyoxypropylene glycols
United States	5011926	4/30/1991	NICKEL-BASED DUAL CATALYST SYSTEM TO SUPPRESS CARBON DIOXIDE FORMATION DURING SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AMINE. AMINATION.
United States	5140090	8/18/1992	ALIPHATIC POLYUREAS PREPARED FROM POLYOXYALKYLENE POLYAMINES, TETRAMETHYL ALIPHATIC XYLENE DIISOCYANATE AND SYM-DIALKYLETHYL ENEDIAMINES.
United States	5071980	12/10/1991	NICKEL-BASED DUAL CATALYST SYSTEMS EFFECTIVE IN SUPPRESSING CARBON DIOXIDE FORMATION DURING DIETHYLENE GLYCOL AMINATION. NICKEL/RUTHENIUM DUAL CATALYST SYSTEMS FOR SELECTIVE AMINATION OF DIETHYLENE GLYCOL TO MORPHOLINE AND DIGLYCOLAMINE AND SUPPRESSION OF CARBON DIOXIDE FORMATION.
United States	5153232	10/6/1992	WATER BLOWN POLYUREA FOAMS BASED ON ALIPHATIC PRIMARY POLYOXYALKYLENEAMINES. FOAMED POLYUREA ELASTOMER-RIGID AND CLOSED-CELLED.

Country Name	Patent Number	Grant Date	Title
United States	5218005	6/8/1993	POLYUREA ELASTOMERS MADE USING POLYAMIDE/CARBONYL ADDUCTS AS CHAIN EXTENDERS. SPRAY POLYUREA ELASTOMERS PREPARED USING LOW MOLECULAR WEIGHT POLYOXYALKYLENEAMINE FORMALDEHYDE ADDUCTS AS CHAIN EXTENDERS.
United States	5189075	2/23/1993	POLYUREA ELASTOMERS MADE USING POLYOXYALKYLENE TETRA- OR HIGHER FUNCTIONAL AMINE CHAIN EXTENDERS
United States	5248756	9/28/1993	Crystallization agent for bisphenol-A polycarbonate
United States	5162388	11/10/1992	ALIPHATIC POLYUREA ELASTOMERS. CYCLOALIPHATIC DIAMINES, E.G., 1,3-DIAMINO CYCLOHEXANE OR ISOPHORONEDIAMINE, AS CHAIN EXTENDERS IN ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5235007	8/10/1993	Epoxy curing agents
United States	5414087	5/9/1995	Preparation of N-alkylpiperazines
United States	5254668	10/19/1993	POLY(AMIDE-ETHER-AMIDE) ABA TRIBLOCK COPOLYMERS PREPARED FROM NYLON-6 AND POLYOXYALKYLENE GLYCOL BASED JEFFAMINE AMINES OR POLY(TETRAHYDROFURAN) BASED AMINES. POLYAMIDOPOLY FUNCTIONAL AMINE FROM LACTAM AND ETHER AMINE.
United States	5298618	3/29/1994	Macrocyclic oxamides
United States	5288873	2/22/1994	AMINATED ALKOXYLATED IMIDAZOLIDONES
United States	5189073	2/23/1993	PROCESS FOR THE PRODUCTION OF EXPANDED MATERIALS BASED ON POLYUREA ELASTOMERS
United States	5250632	10/5/1993	HEIMD-CONTAINING POLYETHERAMINE CURATIVE FOR FLEXIBLE, TOUGHENED PRODUCTS
United States	5276215	1/4/1994	ALKYLPHENOL SYNTHESIS USING ZEOLITES AS CATALYSTS, PARTICULARLY DEALUMINIZED Y-ZEOLITES. ALKYLPHENOLS PREPARED FROM PHENOL AND CORRESPONDING OLEFINS USING ZEOLITE MOLECULAR SIEVES AS CATALYSTS, E.G., DEALUMINIZED Y-ZEOLITES.
United States	5317076	5/31/1994	POLYUREA ELASTOMER WITH REDUCED MOISTURE VAPOR TRANSMISSION. SPRAY POLYUREA ELASTOMERS BASED ON AN AMINATED 1,2-BUTYLENE OXIDE POLYOL WITH IMPROVED MOISTURE VAPOR TRANSMISSION.

Country Name	Patent Number	Grant Date	Title
United States	5721315	2/24/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5783630	7/21/1998	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5324812	6/28/1994	WATER SOLUBLE POLYAMIDES FROM POLYALKYLENE GLYCOL DIAMINES and POLY-CARBOXYLIC ACIDS. PREPARED FROM DIMER ACIDS AND POLYETHER AMINES.
United States	5442034	8/15/1995	ALIPHATIC SPRAY POLYUREA ELASTOMERS CONTAINING ORGANIC CARBONATES TO IMPROVE PROCESSING CHARACTERISTICS
United States	5494595	2/27/1996	OIL SOLUBLE POLYETHERS
United States	5641722	6/24/1997	IMPROVED HIGH PERFORMANCE VPO CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5631387	5/20/1997	PROCESS AND APPARATUS FOR THE PREPARATION AND RECOVERY OF MALEIC ANHYDRIDE
United States	5352835	10/4/1994	SUPPORTED CATALYSTS FOR AMINATION
United States	5239048	8/24/1993	Aromatic polyoxyalkylene amidoamines
United States	5344996	9/6/1994	Catalyst removal from alcohol alkoxylates using acid clays
United States	5344984	9/6/1994	Method for preparing twin-tailed" polyoxyalkylene tertiary amines"
United States	5504181	4/2/1996	ALIPHATIC SPRAY POLYUREA ELASTOMERS.
United States	5140097	8/18/1992	THERMOPLASTIC THERMOSETTABLE POLYAMIDE FROM POLY (OXYTETRAMETHYLENE) DIAMINE AND POLY(OXYTETRAMETHYLENE) OLIGOMER POLYAMINE. POLYAMIDES PREPARED FROM DICARBOXYLIC ACIDS, E.G., ADIPIC, SEBACIC OR TEREPHTHALIC ACID, AND A MIXTURE OF POLY(OXY TETRAMETHYLENE)DIAMINE, ITS OLIGOMERS AND OPTIONALLY A SATURATED AMINO ACID, E.G.,
United States	5262551	11/16/1993	PROCESS FOR ETHYLENE EPOXIDATION.
United States	5324880	6/28/1994	PROCESS FOR DEHYDROGENATION OF PARAFFIN
United States	5091585	2/25/1992	Continuous preparatin of tertiary aliphatic methyl amines

Country Name	Patent Number	Grant Date	Title
United States	5965667	10/12/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6140416	10/31/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	5942576	8/24/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6093773	7/25/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE.
United States	6093496	7/25/2000	POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	6214914	4/10/2001	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE. POLYETHER MONOAMINE WITH 36-44 ETHYLENE OXIDE UNITS AND 1-6 PROPYLENE OXIDE UNITS.
United States	6465606	10/15/2002	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE MONOAMINE.
United States	5985999	11/16/1999	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	6127480	10/3/2000	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN. .
United States	6420482	7/16/2002	DYEABLE POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	5759695	6/2/1998	POLYUREA ELASTOMER SYSTEMS WITH IMPROVED ADHESION TO SUBSTRATES
United States	5962144	10/5/1999	POLYUREA ELASTOMER SYSTEMS WITH IMPROVED ADHESION TO SUBSTRATES
United States	6057443	5/2/2000	DIMORPHOLINOETHER HAVING IMPROVED ISOCYANATE STABILITY
United States	5972174	10/26/1999	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE
United States	6013755	1/11/2000	A METHOD OF PREPARING AN ALIPHATIC POLYUREA SPRAY ELASTOMER SYSTEM
United States	6399736	6/4/2002	METHOD OF PREPARING SPRAY ELASTOMER SYSTEMS
United States	6605684	8/12/2003	METHOD OF PREPARING SPRAY ELASTOMER SYSTEMS.

Country Name	Patent Number	Grant Date	Title
United States	5912382	6/15/1999	HYDROXYALKYL CARBAMATE COMPOSITIONS AND PROCESSES FOR MANUFACTURING SAME
United States	6040284	3/21/2000	Paint coatings remover comprising propylene carbonate and hydrogen peroxide
United States	6146574	11/14/2000	ARTICLE MANUFACTURE USING POLYOLEFIN CONTAINING POLYETHERAMINE MODIFIED FUNCTIONALIZED POLYOLEFIN
United States	5877331	3/2/1999	PREVENTION OF CATALYST ATTRITION AND TAR FORMATION IN MANUFACTURE OF MALEIC ANHYDRIDE
United States	5962699	10/5/1999	PROCESS FOR DECOLORIZING ORGANIC CARBONATES
United States	6083897	7/4/2000	SOLUBILIZATION OF LOW 2-PHENYL ALKYL BENZENE SULFONATES
United States	6166281	12/26/2000	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE-CONTAINING MORDENITES
United States	6133492	10/17/2000	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE-CONTAINING MORDENITES
United States	6093854	7/25/2000	A PROCESS FOR PREPARING ALKANOLAMINES FROM POLYOLEFIN EPOXIDES
United States	6593495	7/15/2003	ANHYDRIDE STABILIZATION
United States	6060625	5/9/2000	PROCESS FOR THE PRODUCTION OF ETHERAMINE ALKOXYLATES
United States	6300505	10/9/2001	METHOD AND APPARATUS FOR IMPROVING THE UNIFORMITY OF DISTRIBUTION OF A PHOSPHOROUS-CONTAINING AGENT THROUGHOUT A MALEIC ANHYDRIDE CATALYTIC REACTOR
United States	6369009	4/9/2002	PAINT AND COATING REMOVER
United States	6586380	7/1/2003	PAINT AND COATING REMOVER
United States	6552121	4/22/2003	ALKALI-SILICATE POLYISOCYANATE COMPOSITES
United States	6159915	12/12/2000	PAINT AND COATING REMOVER

Country Name	Patent Number	Grant Date	Title
United States	6191317	2/20/2001	PROCESS FOR PREPARATION OF POLYALKYL HYDROXYAROMATICS
United States	6294071	9/25/2001	METHODS FOR FORMING COPPER SOLUTIONS
United States	6417135	7/9/2002	ADVANCES IN DEHYDROGENATION CATALYSIS
United States	6384240	5/7/2002	PROCESS TO PRODUCE PHOTOCHROMIC GRADE FOR THE PURIFICATION OF ALKYLENE CARBONATES
United States	6395103	5/28/2002	DEGREASING COMPOSITIONS
United States	6548726	4/15/2003	REMOVAL OF DEHA FROM A BUTADIENE STREAM
United States	6210452	4/3/2001	FUEL ADDITIVES
United States	6562776	5/13/2003	SOLID ALKYL BENZENE SULFONATES AND CLEANING COMPOSITIONS HAVING ENHANCED WATER HARDNESS TOLERANCE
United States	6420327	7/16/2002	CARBONATE BASED COATING REMOVER
United States	6548464	4/15/2003	PAINT STRIPPER FOR AIRCRAFT AND OTHER MULTICOAT SYSTEMS
United States	6596677	7/22/2003	CLEANING COMPOSITIONS FOR HARD SURFACES (Amended)
United States	6627761	9/30/2003	MULTIFUNCTIONAL CARBONATES AND DERIVATIVES
United States	6488808	12/3/2002	STYRENE COPOLYMERS IN DE-INKING
United States	6340559	1/22/2002	SEMICONDUCTOR DEVELOPING AGENT
United States	6608012	8/19/2003	PROCESS TO REMOVE PAINT AND PRIMER COATINGS FROM THERMOPLASTIC POLYOLEFIN (TPO) SUBSTRATES
United States	6673212	1/6/2004	POLYMERIZATION-INHIBITED DISTILLATION
United States	6534555	3/18/2003	CATALYST SYSTEMS FOR POLYURETHANE POLYESTER FOAMS

Country Name	Patent Number	Grant Date	Title
United States	6479593	11/12/2002	ABSORBENT POLYMER MODIFICATION
United States	7196033	3/27/2007	ADVANCES IN AMINATION CATALYSIS
United States	5962748	10/5/1999	PROCESS FOR PREPARING LOW UNSATURATION POLYETHER POLYOLS.
United States	5962618	10/5/1999	POLYUREA SPRAY RAILCAR LINING SYSTEMS WITH HIGH FLEXIBILITY AND IMPROVED IMPACT AND ABRASION RESISTANCE.
United States	6005121	12/21/1999	HIGH PRODUCTIVITY PROCESS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5773382	6/30/1998	IMPROVED HIGH PERFORMANCE VPO CATALYST AND PROCESS OF PREPARATION THEREOF.
United States	5929256	7/27/1999	MOLYBDENUM MODIFIED VANADIUM-PHOSPHOROUS OXIDE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	6120654	9/19/2000	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE.
United States	6090245	7/18/2000	PROCESS FOR THE PURIFICATION OF MALEIC ANHYDRIDE.
United States	5861051	1/19/1999	PROCESS FOR REMOVING CARBON DIOXIDE FROM GAS MIXTURE.
United States	6046343	4/4/2000	PREVENTION OF CATALYST ATTRITION AND TAR FORMATION IN MANUFACTURE OF MALEIC ANHYDRIDE.
United States	6730810	5/4/2004	ANHYDRIDE STABILIZATION.
United States	6603042	8/5/2003	ANHYDRIDE STABILIZATION.
United States	6420311	7/16/2002	POLYETHER DIAMINE BASED SURFACTANT ADJUVANTS AND COMPOSITIONS THEREOF.
United States	6514190	2/4/2003	PRIMARY ALKANOLAMIDES.
United States	6700028	3/2/2004	ADVANCES IN DEHYDROGENATION CATALYSIS.
United States	6476237	11/5/2002	PURIFICATION OF ALKYLENE CARBONATES.
United States	6458969	10/12/2002	Process for the purification of alkylene carbonate.

Country Name	Patent Number	Grant Date	Title
United States	6887830	5/3/2005	SURFACTANT ADJUVANTS USEFUL IN HERBICIDE COMPOSITIONS.
United States	6482292	11/19/2002	STYRENE COPOLYMERS IN DE-INKING.
United States	5959032	9/28/1999	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	6031048	2/29/2000	POLYETHER AMINE MODIFICATION OF POLYPROPYLENE
United States	5668217	9/16/1997	AMIDOAMINE MODIFICATION OF POLYPROPYLENE
United States	5646235	7/8/1997	REDUCTIVE ALKYLATION OF POLYAMINES
United States	5847254	12/8/1998	ALKYLATION OF BENZENE TO FORM LINEAR ALKYL BENZENES USING FLUORINE CONTAINING MORDENITES
United States	5731397	3/24/1998	POLYUREA SPRAY RAILCAR LINING SYSTEMS WITH HIGH FLEXIBILITY AND IMPROVED IMPACT AND ABRASION RESISTANCE.
United States	5616677	4/1/1997	PREPARATION OF SPRAYABLE ALIPHATIC POLYUREA ELASTOMERS HAVING IMPROVED PROPERTIES
United States	5137860	8/11/1992	PROCESS FOR THE TRANSFORMATION OF VANADIUM/PHOSPHORUS MIXED OXIDE CATALYST PRECURSORS INTO ACTIVE CATALYSTS FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	5185455	2/9/1993	METHOD FOR IMPROVING THE PERFORMANCE OF VPO CATALYSTS
United States	5185485	2/9/1993	PROCESS FOR PREPARING ALKYL BENZENE
United States	5275996	1/4/1994	PHOSPHOROUS/VANADIUM OXIDE CATALYST AND PROCESS OF PREPARATION THEREOF
United States	5168090	12/1/1992	SHAPED OXIDATION CATALYST STRUCTURES FOR THE PRODUCTION OF MALEIC ANHYDRIDE
United States	6162776	12/19/2000	PAINT AND COATING REMOVER.
United States	6887839	5/3/2005	SOLID ALKYL BENZENE SULFONATES AND CLEANING COMPOSITIONS HAVING ENHANCED WATER HARDNESS TOLERANCE

Country Name	Patent Number	Grant Date	Title
United States	6888030	5/3/2005	ADVANCES IN AMINATION
United States	7012043	3/14/2006	DRILLING FLUIDS
United States	6946503	9/20/2005	AMINE BLEND ACCELERATORS FOR POLYOXYALKYLENEPOLYAMINE CURED EPOXY RESINS
United States	7169268	1/30/2007	COLOR STABILIZATION OF AMINES
United States	7074963	7/11/2006	PREPARATION OF SECONDARY AMINES.
United States	7008914	3/7/2006	ALKYLBENZENE DETERGENTS WITH HIGH 2-ISOMER CONTENT
United States	7049265	5/23/2006	ANION CATALYST SYSTEM FOR FOAMS
United States	6169061	1/2/2001	PAINT AND COATING REMOVER
United States	6630430	10/7/2003	FUEL AND OIL DETERGENTS
United States	6710203	3/23/2004	PREPARATION OF HYDROXYALKYLCARBAMATES FROM 6-MEMBERED CYCLIC CARBONATES.
United States	6995127	2/7/2006	ALKYL TOLUENE SULFONATE DETERGENTS
United States	6703033	3/9/2004	ADVANCES IN TOWELETES
United States	6387223	5/14/2002	ALKYLENE CARBONATE PROCESS.
United States	7351859	4/1/2008	Heat Activated Tertiary Amine Urethane Catalysts
United States	6586164	7/1/2003	ALTERNATIVE PHOTORESIST STRIPPING COMPOSITIONS
United States	7078475	7/18/2006	SYNERGISTIC AMINE CHAIN EXTENDERS IN POLYUREA SPRAY ELASTOMERS

Trademark Grants

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	9/30/2002	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas (formerly known as Bankers Trust Company), as Collateral Agent	10/15/2002	2602/0317

Country Name	Registration Number	Registration Date	Mark
United States	2271545	8/24/1999	CARBALINK
United States	790882	6/15/1965	DIGLYCOLAMINE
United States	2863077	7/13/2004	E-GRADE
United States	2125922	12/30/1997	JEFF
United States	900546	10/13/1970	JEFFAMINE
United States	2046303	3/18/1997	JEFFCAT
United States	2027525	12/31/1996	JEFFCOOL
United States	2760234	9/2/2003	JEFFLINK
United States	1283943	7/3/1984	JEFFOX
United States	2077844	7/8/1997	JEFFSOL
United States	2035971	2/4/1997	JEFFTREAT

Country Name	Registration Number	Registration Date	Mark
United States	2375441	8/8/2000	POGOL
United States	1710727	8/25/1992	QUICKTREAT
United States	638883	12/18/1956	SURFONIC
United States	2772604	10/7/2003	TERMUL
United States	2768715	9/30/2003	TERSPERSE
United States	2513369	11/27/2001	TERWET
United States	2439636	3/27/2001	ULTRAPURE
United States	2297884	12/7/1999	JEFFOL
United States	2299734	12/14/1999	SURFONAMINE
United States	2359811	6/20/2000	SURFOL
United States	2343670	4/18/2000	UNIFROTH
United States	2373035	8/1/2000	HARTOSOFT
United States	1470302	12/29/1987	ALKAPOL

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	9/30/2003	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas (formerly known as Bankers Trust Company), as Collateral Agent	11/25/2003	2869/0351

Country Name	Registration Number	Registration Date	Mark
United States	2271545	8/24/1999	CARBALINK
United States	790882	6/15/1965	DIGLYCOLAMINE
United States	2863077	7/13/2004	E-GRADE
United States	2125922	12/30/1997	JEFF
United States	900546	10/13/1970	JEFFAMINE
United States	2046303	3/18/1997	JEFFCAT
United States	2027525	12/31/1996	JEFFCOOL
United States	2760234	9/2/2003	JEFFLINK
United States	1283943	7/3/1984	JEFFOX
United States	2077844	7/8/1997	JEFFSOL
United States	2035971	2/4/1997	JEFFTREAT
United States	2375441	8/8/2000	POGOL

Country Name	Registration Number	Registration Date	Mark
United States	1710727	8/25/1992	QUICKTREAT
United States	638883	12/18/1956	SURFONIC
United States	2772604	10/7/2003	TERMUL
United States	2768715	9/30/2003	TERSPERSE
United States	2513369	11/27/2001	TERWET
United States	2439636	3/27/2001	ULTRAPURE
United States	2297884	12/7/1999	JEFFOL
United States	2299734	12/14/1999	SURFONAMINE
United States	2359811	6/20/2000	SURFOL
United States	2343670	4/18/2000	UNIFROTH
United States	2373035	8/1/2000	HARTOSOFT
United States	1470302	12/29/1987	ALKAPOL

Instrument	Instrument Date	Grantor	Holder	United States Patent and Trademark Office	
				Recording Date	Reel & Frame
Grant of Security Interest in United States Trademarks and Patents	10/14/2004	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas, as Collateral Agent	1/28/2005	3020/0731

Country Name	Registration Number	Registration Date	Mark
United States	2271545	8/24/1999	CARBALINK
United States	2855802	6/22/2004	DGA
United States	790882	6/15/1965	DIGLYCOLAMINE
United States	2863077	7/13/2004	B-GRADE
United States	3002645	9/27/2005	ELASTAMINE
United States	2125922	12/30/1997	JEFF
United States	900546	10/13/1970	JEFFAMINE
United States	2046303	3/18/1997	JEFFCAT
United States	2027525	12/31/1996	JEFFCOOL
United States	2760234	9/2/2003	JEFFLINK
United States	1283943	7/3/1984	JEFFOX
United States	2077844	7/8/1997	JEFFSOL
United States	2035971	2/4/1997	JEFFTREAT

Country Name	Registration Number	Registration Date	Mark
United States	2375441	8/8/2000	POGOL
United States	1710727	8/25/1992	QUICKTREAT
United States	638883	12/18/1956	SURFONIC
United States	3107980	6/20/2006	TERMIX
United States	2772604	10/7/2003	TERMUL
United States	2768715	9/30/2003	TERSPERSE
United States	2513369	11/27/2001	TERWET
United States	2439636	3/27/2001	ULTRAPURE
United States	2297884	12/7/1999	JEFFOL
United States	2299734	12/14/1999	SURFONAMINE
United States	2359811	6/20/2000	SURFOL
United States	2343670	4/18/2000	UNIFROTH
United States	2373035	8/1/2000	HARTOSOFT
United States	1470302	12/29/1987	ALKAPOI

Copyright Grants

Instrument	Instrument Date	Grantor	Holder	United States Copyright Office	
				Recording Date	Document Number
Grant of Security Interest in United States Copyrights	10/14/04	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas, as Collateral Agent	11/22/2004	V3517D024

Country Name	Document Number	Year	Title
United States	TX 2-161-648	1987	The jeffamine polyoxyalkyleneamines
United States	TX 1-963-516	1986	Methyldiethanolamine
United States	TX 1-930-854	1986	THANCAT ZF-22 catalyst
United States	TX 1-163-756	1983	Diethanoamine: technical services bulletin
United States	TX 1-163-755	1983	Aminoethylpiperazine: technical services bulletin
United States	TX 1-163-753	1983	Triethanolamine: technical services bulletin
United States	TX 1-163-752	1983	Piperazine: technical services bulletin
United States	TX 1-163-749	1983	Monoethanolamine: technical services bulletin
United States	TX 778-371	1981	SURFONIC LF-17 (revisions, deletions and additions)
United States	TX 736-065	1981	Amine C-12: technical services bulletin
United States	TX 736-063	1981	Amine AL-1: technical services bulletin (revisions and additions)
United States	TX 706-051	1981	Amides from DIGYCOLAMINE agent: technical services bulletin

Instrument	Instrument Date	Grantor	Holder	United States Copyright Office	
				Recording Date	Document Number
Grant of Security Interest in United States Copyrights	9/30/03	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas (formerly known as Bankers Trust Company), as Collateral Agent	11/26/2003	V3504D577

Country Name	Document Number	Year	Title
United States	TX 2-161-648	1987	The JEFFAMINE polyoxyalkyleneamines
United States	TX 1-963-516	1986	Methyldiethanolamine
United States	TX 1-930-854	1986	THANCAT ZF-22 catalyst
United States	TX 1-163-756	1983	Diethanolamine: technical services bulletin
United States	TX 1-163-755	1983	Aminoethylpiperazine: technical services bulletin
United States	TX 1-163-753	1983	Triethanolamine: technical services bulletin
United States	TX 1-163-752	1983	Piperazine: technical services bulletin
United States	TX 1-163-749	1983	Monoethanolamine: technical services bulletin
United States	TX 778-371	1981	SURFONIC LF-17; revisions, deletions & additions
United States	TX 736-065	1981	Amine C-12: technical services bulletin
United States	TX 736-063	1981	Amine AL-1 technical services bulletin; revisions and additions
United States	TX 706-051	1981	Amides from DIGLYCOLAMINE agent: technical services bulletin

Instrument	Instrument Date	Grantor	Holder	United States Copyright Office	
				Recording Date	Document Number
Grant of Security Interest in United States Copyrights	9/30/02	Huntsman Petrochemical Corporation	Deutsche Bank Trust Company Americas (formerly known as Bankers Trust Company), as Collateral Agent	03/07/2003	V3495D124

Country Name	Document Number	Year	Title
United States	TX 2-161-648	1987	The JEFFAMINE polyoxyalkyleneamines
United States	TX 1-963-516	1986	Methyldiethanolamine
United States	TX 1-930-854	1986	THANCAT ZF-22 catalyst
United States	TX 1-163-756	1983	Diethanolamine technical services bulletin
United States	TX 1-163-755	1983	Aminoethylpiperazine technical services bulletin
United States	TX 1-163-753	1983	Triethanolamine technical services bulletin
United States	TX 1-163-752	1983	Piperazine technical services bulletin
United States	TX 1-163-749	1983	Monoethanolamine technical services bulletin
United States	TX 778-371	1984	SURFONIC LF-17; revisions, deletions and additions
United States	TX 736-065	1981	Amine C-12 technical services bulletin
United States	TX 736-063	1981	Amine AL-1 technical services bulletin; revisions and additions
United States	TX 706-051	1981	Amides from DIGLYCOLAMINE agent technical services bulletin

Instrument	Instrument Date	Grantor	Holder	United States Copyright Office	
				Recording Date	Document Number
Assignment for Security - Marks	1/29/1996	Huntsman Petrochemical Corporation	Bankers Trust Company, as Collateral Trustee	8/12/1996	V3268P223

Country Name	Document Number	Year	Title
United States	TX 2-161-648	1987	The Jeffamine polyoxyalkyleneamines
United States	TX 1-963-516	1986	Methyldiethanolamine
United States	TX 1-930-854	1986	Thancat ZF-22 catalyst
United States	TX 1-163-756	1983	Diethanolamine: technical services bulletin
United States	TX 1-163-755	1983	Aminoethylpiperazine: technical services bulletin
United States	TX 1-163-753	1983	Triethanolamine: technical services bulletin
United States	TX 1-163-752	1983	Piperazine: technical services bulletin
United States	TX 1-163-749	1983	Nanoethanolamine: technical services bulletin
United States	TX 778-371	1981	Surfonic LF-17 (revisions, deletions and additions)
United States	TX 736-065	1981	Amine C-12: technical services bulletin
United States	TX 736-063	1981	Amine AL-1 technical services bulletin (revisions and additions)
United States	TX 706-051	1981	Amides from Diglycolamine agent: technical services bulletin

Instrument	Instrument Date	Grantor	Holder	United States Copyright Office	
				Recording Date	Document Number
Memorandum of Security Interest	10/23/96	Huntsman Petrochemical Corporation, as Collateral Trustee	Bankers Trust Company, as Collateral Trustee	11/19/1996	V3312P044

Country Name	Document Number	Year	Title
United States	TX 2-161-648	1987	The Jeffamine polyoxyalkyleneamines
United States	TX 1-963-516	1986	Methyldiethanolamine
United States	TX 1-930-854	1986	Thancat ZF-22 catalyst
United States	TX 1-163-756	1983	Diethanolamine: technical services bulletin
United States	TX 1-163-755	1983	Aminoethylpiperazine: technical services bulletin
United States	TX 1-163-753	1983	Triethanolamine: technical services bulletin
United States	TX 1-163-752	1983	Piperazine: technical services bulletin
United States	TX 1-163-749	1983	Nanoethanolamine: technical services bulletin
United States	TX 778-371	1981	Surfonic LF-17 (revisions, deletions and additions)
United States	TX 736-065	1981	Amine C-12: technical services bulletin
United States	TX 736-063	1981	Amine AL-1 technical services bulletin (revisions and additions)
United States	TX 706-051	1981	Amides from Diglycolamine agent: technical services bulletin