# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: Security Agreement

### **CONVEYING PARTY DATA**

Name	Execution Date	
Ascend Performance Materials LLC	06/01/2009	

## **RECEIVING PARTY DATA**

Name:	Wells Fargo Foothill, LLC
Street Address: 1000 Abernathy Road, Suite 1600	
City: Atlanta	
State/Country: GEORGIA	
Postal Code:	30328

### PROPERTY NUMBERS Total: 80

Property Type	Number
Patent Number:	6268450
Patent Number:	6066687
Patent Number:	4913869
Patent Number:	5496510
Patent Number:	4851466
Patent Number:	5028471
Patent Number:	6675838
Patent Number:	7115311
Patent Number:	5874647
Patent Number:	5419850
Patent Number:	5756152
Patent Number:	7081552
Patent Number:	RE36856
Patent Number:	6169162
Patent Number:	6755366

PATENT " REEL: 022783 FRAME: 0049 \$3200.00

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Patent Number:	5830240
Patent Number:	5944852
Patent Number:	6413635
Patent Number:	5458968
Patent Number:	5079379
Patent Number:	6037421
Patent Number:	7196223
Patent Number:	6162537
Patent Number:	6624097
Patent Number:	4901517
Patent Number:	5916410
Patent Number:	6379489
Patent Number:	5349038
Patent Number:	5277855
Patent Number:	6740722
Patent Number:	6660887
Patent Number:	6951959
Patent Number:	6287689
Patent Number:	6630087
Patent Number:	6955132
Patent Number:	5756861
Patent Number:	6083283
Patent Number:	5972046
Patent Number:	5445653
Patent Number:	6048955
Patent Number:	6562896
Patent Number:	6197855
Patent Number:	5593751
Patent Number:	4952541
Patent Number:	6277933
Patent Number:	6143835
Patent Number:	5425895
Patent Number:	5874646
Patent Number:	5110995
Patent Number:	4892558

Patent Number:	5182154
Patent Number:	6156938
Patent Number:	5889138
Patent Number:	6399825
Patent Number:	7070746
Patent Number:	6916763
Patent Number:	5895822
Patent Number:	6953558
Patent Number:	7196231
Patent Number:	6036726
Patent Number:	5738688
Patent Number:	6024770
Patent Number:	5591802
Patent Number:	5808167
Patent Number:	5079063
Patent Number:	5017116
Patent Number:	7261849
Patent Number:	5294384
Patent Number:	5498667
Patent Number:	5334452
Patent Number:	5540840
Patent Number:	5791574
Application Number:	11541410
Application Number:	10593824
Application Number:	11678329
Application Number:	11767555
Application Number:	11078377
Patent Number:	6255539
Application Number:	12153936
Application Number:	09216621

## CORRESPONDENCE DATA

Fax Number: (800)680-9592

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

Phone: 202-783-2700

Email: Oleh.Hereliuk@federalresearch.com

Correspondent Name: CBCInnovis dba Federal Research Address Line 1: 1023 Fifteenth Street, NW, Ste 401 Address Line 2: attn: Oleh Hereliuk Address Line 4: Washington, DISTRICT OF COLUMBIA 20005 ATTORNEY DOCKET NUMBER: 437977 NAME OF SUBMITTER: Oleh Hereliuk **Total Attachments: 26** source=437977#page1.tif source=437977#page2.tif source=437977#page3.tif source=437977#page4.tif source=437977#page5.tif source=437977#page6.tif source=437977#page7.tif source=437977#page8.tif source=437977#page9.tif source=437977#page10.tif source=437977#page11.tif source=437977#page12.tif source=437977#page13.tif source=437977#page14.tif source=437977#page15.tif source=437977#page16.tif source=437977#page17.tif source=437977#page18.tif source=437977#page19.tif source=437977#page20.tif source=437977#page21.tif source=437977#page22.tif source=437977#page23.tif source=437977#page24.tif

source=437977#page25.tif source=437977#page26.tif

#### PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Patent Security Agreement") is made this 1<sup>st</sup> day of June, 2009, by the Grantor listed on the signature pages hereof ("Grantor"), and WELLS FARGO FOOTHILL, LLC, a Delaware limited liability company, in its capacity as collateral and administrative agent for the Lender Group and the Bank Product Providers (together with its successors and assigns, "Agent").

#### WITNESSETH:

WHEREAS, pursuant to (a) that certain Credit Agreement (as amended, restated, supplemented or otherwise modified from time to time, the "Domestic Credit Agreement"), dated as of June 1, 2009, by and among the lenders identified on the signature pages hereof (such lenders, together with their respective successors and permitted assigns, are referred to hereinafter each individually as a "Lender" and collectively as the "Lenders"), WELLS FARGO FOOTHILL, LLC, a Delaware limited liability company, as the collateral and administrative agent for the Lenders (in such capacity, together with its successors and assigns in such capacity, "Agent"), ASCEND PERFORMANCE MATERIALS HOLDINGS INC., a Delaware corporation ("Parent"), and ASCEND PERFORMANCE MATERIALS LLC, a Delaware limited liability company ("Borrower"), and (b) that certain EXIM Guarantied Credit Agreement (as amended, restated, supplemented or otherwise modified from time to time, the "EXIM Credit Agreement", and together with the Domestic Credit Agreement, each, a "Credit Agreement", and collectively, the "Credit Agreements"), dated as of June 1, 2009, by and among the Lenders, Agent, Parent, and Borrower, the Lender Group is willing to make certain financial accommodations available to Borrower pursuant to the terms and conditions thereof; and

WHEREAS, the members of Lender Group are willing to make the financial accommodations to Borrower as provided for in the Credit Agreements, but only upon the condition, among others, that the Grantor shall have executed and delivered to Agent, for the benefit of the Lender Group and the Bank Product Providers, that certain Security Agreement of even date herewith (including all annexes, exhibits or schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Security Agreement"):

WHEREAS, pursuant to the Security Agreement, Grantor is required to execute and deliver to Agent, for the benefit of the Lender Group and the Bank Product Providers, this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor hereby agrees as follows:

- 1. <u>DEFINED TERMS</u>. All capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement.
- 2. <u>GRANT OF SECURITY INTEREST IN PATENT COLLATERAL</u>. Grantor hereby grants to Agent, for the benefit of the Lender Group and the Bank Product Providers, a continuing first priority security interest in all of such Grantor's right, title and interest in, to and under the following, whether presently existing or hereafter created or acquired (collectively, the "<u>Patent Collateral</u>"):
- (a) all of its Patents and Patent Intellectual Property Licenses (but excluding any off-the-shelf software license agreement) to which it is a party including those referred to on <u>Schedule I</u> hereto;
  - (b) all reissues, continuations or extensions of the foregoing; and
- (c) all products and proceeds of the foregoing, including any claim by such Grantor against third parties for past, present or future infringement or dilution of any Patent or any Patent licensed under any Intellectual Property License.

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- 3. <u>SECURITY FOR OBLIGATIONS</u>. This Patent Security Agreement and the Security Interest created hereby secures the payment and performance of all the Secured Obligations, whether now existing or arising hereafter. Without limiting the generality of the foregoing, this Patent Security Agreement secures the payment of all amounts which constitute part of the Obligations and would be owed by Grantor to Agent, the Lender Group, the Bank Product Providers or any of them, whether or not they are unenforceable or not allowable due to the existence of an Insolvency Proceeding involving Grantor.
- 4. <u>SECURITY AGREEMENT</u>. The security interests granted pursuant to this Patent Security Agreement are granted in conjunction with the security interests granted to Agent, for the benefit of the Lender Group and the Bank Product Providers, pursuant to the Security Agreement. Grantor hereby acknowledges and affirms that the rights and remedies of Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.
- 5. <u>AUTHORIZATION TO SUPPLEMENT</u>. If Grantor shall obtain rights to any new patentable inventions or become entitled to the benefit of any patent application or patent for any reissue, division, or continuation, of any patent, the provisions of this Patent Security Agreement shall automatically apply thereto. Grantor shall give prompt notice in writing to Agent with respect to any such new patent rights. Without limiting Grantor's obligations under this Section, Grantor hereby authorizes Agent unilaterally to modify this Agreement by amending <u>Schedule I</u> to include any such new patent rights of Grantor. Notwithstanding the foregoing, no failure to so modify this Patent Security Agreement or amend <u>Schedule I</u> shall in any way affect, invalidate or detract from Agent's continuing security interest in all Collateral, whether or not listed on Schedule I.
- 6. <u>COUNTERPARTS</u>. This Patent Security Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all such separate counterparts shall together constitute but one and the same instrument. In proving this Patent Security Agreement or any other Loan Document in any judicial proceedings, it shall not be necessary to produce or account for more than one such counterpart signed by the party against whom such enforcement is sought. Any signatures delivered by a party by facsimile transmission or by e-mail transmission shall be deemed an original signature hereto.
- CONSTRUCTION. Unless the context of this Patent Security Agreement or any other Loan 7. Document clearly requires otherwise, references to the plural include the singular, references to the singular include the plural, the terms "includes" and "including" are not limiting, and the term "or" has, except where otherwise indicated, the inclusive meaning represented by the phrase "and/or." The words "hereof," "herein," "hereby," "hereunder," and similar terms in this Patent Security Agreement or any other Loan Document refer to this Patent Security Agreement or such other Loan Document, as the case may be, as a whole and not to any particular provision of this Patent Security Agreement or such other Loan Document, as the case may be. Section, subsection, clause, schedule, and exhibit references herein are to this Patent Security Agreement unless otherwise specified. Any reference in this Patent Security Agreement or in any other Loan Document to any agreement, instrument, or document shall include all alterations, amendments, changes, extensions, modifications, renewals, replacements, substitutions, joinders, and supplements, thereto and thereof, as applicable (subject to any restrictions on such alterations, amendments, changes, extensions, modifications, renewals, replacements, substitutions, joinders, and supplements set forth herein). Any reference herein or in any other Loan Document to the satisfaction or repayment in full of the Obligations shall mean the repayment in full in cash (or cash collateralization in accordance with the terms of each Credit Agreement) of all Obligations other than unasserted contingent indemnification Obligations and other than any Bank Product Obligations that, at such time, are allowed by the applicable Bank Product Providers to remain outstanding and that are not required by the provisions of either Credit Agreement to be repaid or cash collateralized. Any reference herein to any Person shall be construed to include such Person's successors and assigns. Any requirement of a writing contained herein or in any other Loan Document shall be satisfied by the transmission of a Record and any Record so transmitted shall constitute a representation and warranty as to the accuracy and completeness of the information contained therein.

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**IN WITNESS WHEREOF**, the Grantor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

**GRANTOR:** 

ASCEND PERFORMANCE MATERIALS LLC,

a Delaware limited liability company

Ву:

Name: Barry Siadat

Title:

Chairman of the Board

[Signature page to Patent Security Agreement]

AGENT:

WELLS FARGO FOOTHILL, LLC, a Delaware limited liability company,

as Agent

Ву:

Name: Brian T. Kennedy

Title:

Vice President / Senior Underwriter

[Signature page to Patent Security Agreement]

# SCHEDULE I

Patents and Patent Intellectual Property Licenses

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# **SCHEDULE I**

## PATENTS AND PATENT INTELLECTUAL PROPERTY LICENSES

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
A process for manufacturing unsaturated mononitriles to improve on-stream time and reduce fouling		Pending	12153936	5/28/08
Acrylic fiber polymer precursor and fiber	United States	Granted	6268450	7/31/01
Acrylic fiber with high optical brightness	United States	Granted	6066687	5/23/00
Acrylic wet spinning process with distributive stretch	United States	Granted	4913869	4/3/90
Acrylonitrile filament process	United States	Granted	5496510	3/5/96
An improved process for preparing heat and light stabilized nylon 66 polymer	United States	Granted	4851466	7/25/89
Antiflea fibers	United States	Granted	5028471	7/2/91
Anti-static woven fabric and flexible bulk container	United States	Granted	6675838*	1/13/04
Anti-static woven fabric and flexible bulk container	United States	Granted	7115311*	10/3/06
Anti-static woven fabric and flexible bulk container	United States	Published	20070087149*	4/19/07
Anti-static woven fabric and flexible bulk container	WO/PCT	Published	WO2002042165*	5/30/02
Benzene hydroxylation catalys stability by acid treatment	tUnited States	Granted	5874647	2/23/99
Bicomponent electrically conductive drawn polyester fiber and method for making same		Pending	2005233518	3/16/05
Bicomponent electrically conductive drawn polyester fiber and method for making same		Pending	PI05087708	3/16/05

DB1/63042331.1

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Bicomponent electrically conductive drawn polyester fiber and method for making same		Published	200580016329.6	3/16/05
Bicomponent electrically conductive drawn polyester fiber and method for making same		Published	05729224.5	3/16/05
Bicomponent electrically conductive drawn polyester fiber and method for making same		Pending	2007-505014	3/16/05
Bicomponent electrically conductive drawn polyester fiber and method for making same		Pending	PCTUS2005008794	3/16/05
Bicomponent electrically conductive drawn polyester fiber and method for making same		Granted	47529	3/18/08
Bicomponent electrically conductive drawn polyester fiber and method for making same		Pending	094108702	3/22/05
Bicomponent electrically conductive drawn polyester fiber and method for making same		Pending	10593824	9/22/06
Bicomponent electrically conductive drawn polyester fiber and method for making same		Published	PCTUS2005008794	3/16/05
	United States	Granted	5419850	5/30/95
Carpet having improved appearance and wear resistance	United States	Granted	5756152	5/26/98
Catalysts for cycloalkanes oxidation and decomposition of cycloalkyl hydroperoxide		Pending	PI0515213-5	8/9/05
Catalysts for cycloalkanes oxidation and decomposition of cycloalkyl hydroperoxide		Published	200580035352.X	8/9/05
Catalysts for cycloalkanes oxidation and decomposition of cycloalky hydroperoxide		Granted	GB2433899	5/14/08
Catalysts for cycloalkanes oxidation and decomposition of cycloalky hydroperoxide		Pending	2007-527871	8/9/05
Catalysts for cycloalkanes oxidation and decomposition of cycloalky hydroperoxide		Granted	46799	11/2/07
Catalysts for cycloalkanes oxidation and decomposition of cycloalky hydroperoxide		Pending	10-2007-7005689	3/12/07

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Catalysts for cycloalkanes oxidation and decomposition of cycloalkyl hydroperoxide	Taiwan	Published	094128076	8/17/05
Catalysts for cycloalkanes oxidation and decomposition of cycloalkyl hydroperoxide	Ukraine	Pending	200702762	8/9/05
Catalysts for cycloalkanes oxidation and decomposition of cycloalkyl hydroperoxide	United States	Granted	7081552 B2	7/25/06
Catalysts for cycloalkanes oxidation and decomposition of cycloalkyl hydroperoxide	WO/PCT	Published	PCTUS 2005028302	8/9/05
Catalysts for production of phenol and its derivatives	Australia	Granted	694967	2/6/99
Catalysts for production of phenol and its derivatives	Brazil	Granted	PI9507387-6	12/6/05
Catalysts for production of phenol and its derivatives	Canada	Granted	2187649	6/19/01
Catalysts for production of phenol and its derivatives	China	Granted	951932128	9/26/01
Catalysts for production of phenol and its derivatives	Finland	Pending	964101	4/12/95
Catalysts for production of phenol and its derivatives	Japan	Granted	3507500	12/26/03
Catalysts for production of phenol and its derivatives	Mexico	Granted	202379	6/15/01
Catalysts for production of phenol and its derivatives	South Korea	Granted	231372	8/30/99
Catalysts for production of phenol and its derivatives	United States	Granted	RE36856	9/5/00
Catalysts for production of phenol and its derivatives	Viet Nam	Granted	1665	12/18/00
Chemical composition and process	Australia	Granted	735469	10/25/01
Chemical composition and process	Austria	Granted	929507	12/4/02

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Chemical composition and process	Belgium	Granted	929507	12/4/02
Chemical composition and process	Brazil	Filed-UAP	P197118702	9/25/97
Chemical composition and process	China	Granted	ZL971803811	3/12/03
Chemical composition and process	Denmark	Granted	929507	12/4/02
Chemical composition and process	European Patent Office	Granted	929507	12/4/02
Chemical composition and process	Finland	Granted	0929507	12/4/02
Chemical composition and process	France	Granted	929507	12/4/02
Chemical composition and process	Germany	Granted	697176509	12/4/02
Chemical composition and process	Great Britain	Granted	929507	12/4/02
Chemical composition and process	Greece	Granted	3042960	12/4/02
Chemical composition and process	Hong Kong	Granted	1024227B	5/2/03
Chemical composition and process	India	Granted	208253	7/20/07
Chemical composition and process	Italy	Granted	929507	12/4/02
Chemical composition and process	Japan	Granted	4127855	5/23/08
Chemical composition and process	Mexico	Granted	216040	8/27/03
Chemical composition and process	Netherlands	Granted	929507	12/4/02

Title	Jurisdiction	Status	Patent No./	Filing Date/
"보고 얼마면 없는다 생각하다.			<b>Application Number</b>	Grant Date
Chemical composition and process	Portugal	Granted	929507	12/4/02
Chemical composition and process	South Korea	Granted	544044	1/11/06
Chemical composition and process	Spain	Granted	929507	12/4/02
Chemical composition and process	Taiwan	Granted	NI-133007	6/7/01
Chemical composition and process	Ukraine	Granted	59375	9/15/03
Chemical composition and process	United States	Granted	6255539	7/3/01
Chemical composition and process	Viet Nam	Granted	3662	7/17/03
Continuous polyamidation process	Australia	Granted	759321	7/24/03
Continuous polyamidation process	Brazil	Published	P199107953	5/26/99
Continuous polyamidation process	China	Granted	ZL99809197.9	12/14/05
Continuous polyamidation process	European Paten Office	tt Granted	1080130	10/13/04
Continuous polyamidation process	France	Granted	1080130	10/13/04
Continuous polyamidation process	Germany	Granted	1080130	10/13/04
Continuous polyamidation process	Great Britain	Granted	1080130	10/13/04
Continuous polyamidation process	Hungary	Pending	P0102018	5/26/99
Continuous polyamidation process	Israel	Granted	139816	10/25/07

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Continuous polyamidation process	Italy	Granted	1080130	10/13/04
Continuous polyamidation process	Japan	Published	550908	11/28/00
Continuous polyamidation process	Mexico	Granted	226945	3/28/05
Continuous polyamidation process	Netherlands	Granted	1080130	10/13/04
Continuous polyamidation process	Poland	Granted	196614	5/28/07
Continuous polyamidation process	Russian Federation	Granted	2216552	11/20/03
Continuous polyamidation process	Singapore	Granted	77502	12/14/02
Continuous polyamidation process	Slovakia	Published	PV1761-2000	5/26/99
Continuous polyamidation process	Spain	Granted	1080130	10/13/04
Continuous polyamidation process	Taiwan	Granted	NI160748	8/11/02
Continuous polyamidation process	Thailand	Published	050754	5/28/99
Continuous polyamidation process	Turkey	Granted	TR200003532B	10/22/01
Continuous polyamidation process	Ukraine	Granted	56322	5/15/03
Continuous polyamidation process	United States	Granted	6169162	1/2/01
Device for direct insertion of yarn in automatic winder	United States	Granted	6755366	6/29/04
Dyeing process	United States	Granted	5830240	11/3/98

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Dyeing process	United States	Granted	5944852	8/31/99
Elastic nylon yarns	United States	Granted	6413635	7/2/02
Fiber bundles including reversible crimp filaments	United States	Granted	5458968	10/17/95
Fluid bed processes	European Patent Office	Granted	0376912	9/14/94
Fluid bed processes	France	Granted	0376912	9/14/94
Fluid bed processes	Germany	Granted	689182589	9/14/94
Fluid bed processes	Great Britain	Granted	0376912	9/14/94
Fluid bed processes	Italy	Granted	0376912	9/14/94
Fluid bed processes	Japan	Granted	2968810	8/20/99
Fluid bed processes	Mexico	Granted	172994	1/27/94
Fluid bed processes	Netherlands	Granted	0376912	9/14/94
Fluid bed processes	Spain	Granted	0376912	9/14/94
Fluid bed processes	United States	Granted	5079379	1/7/92
Functionalized polymers	United States	Granted	6037421	3/14/00
Higher alcohols for solvents in amino production	e Brazil	Pending	PI0612916-1	4/27/06
Higher alcohols for solvents in amino production	e China	Published	200680014016.1	4/27/06

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Higher alcohols for solvents in amine production	European Patent Office	Pending	06758647.9	4/30/06
Higher alcohols for solvents in amine production	Japan	Pending	2008-510059	4/27/06
Higher alcohols for solvents in amine production	Mexico	Pending	MX/A/2007-013711	4/27/06
Higher alcohols for solvents in amine production	North Korea	Pending	07-3723	4/27/06
Higher alcohols for solvents in amine production	South Korea	Pending	10-2007-7025588	4/27/06
Higher alcohols for solvents in amine production	Ukraine	Pending	200713402	4/27/06
Higher alcohols for solvents in amine production	United States	Granted	7196223	3/27/07
Implantable fibers and medical articles	Australia	Granted	716043	6/1/00
Implantable fibers and medical articles	Belgium	Granted	0935682	9/3/03
Implantable fibers and medical articles	Canada	Granted	2308140	5/15/07
Implantable fibers and medical articles	European Paten Office	t Granted	0935682	9/3/03
Implantable fibers and medical articles	France	Granted	0935682	9/3/03
Implantable fibers and medical articles	Germany	Granted	0935682	9/3/03
Implantable fibers and medical articles	Great Britain	Granted	0935682	9/3/03
Implantable fibers and medical articles	South Africa	Granted	979900	10/28/98
Implantable fibers and medical articles	United States	Granted	6162537	12/19/00

Title	Jurisdiction	Status	Patent No./	Filing Date/
			Application Number	Grant Date
Implantable fibers and medical articles	United States	Granted	6624097	9/23/03
Improved apparatus for the drafting of ring spinning frames	United States	Granted	4901517	2/20/90
Improved carpet reclamation process	Canada	Granted	2201375	1/9/07
Improved carpet reclamation process	United States	Granted	5916410	6/29/99
Improved carpet reclamation process	United States	Granted	6379489	4/30/02
Improved stainblockers for nylor carpeting	United States	Granted	5349038	9/20/94
Incorporation of conductive filament in high speed melt spun yarns	United States	Granted	5277855	1/11/94
Low density acrylic fiber	United States	Granted	6740722	5/25/04
Low pressure process for the manufacture o 3-dimethylaminopropylamine (dmapa)	Australia f	Pending	2003299603	6/20/05
	Brazil f	Pending	PI03177068	6/23/05
	Canada f	Published	2511478	12/12/03
	China f	Granted	ZL200380109796.4	2/20/08
Low pressure process for the	European Patent fOffice	Published	03799890.3	6/21/05
	e India f	Pending	1390/CHEN/2005	6/23/05
	e Israel f	Pending	169278	6/19/05
		Pending	2005508577	7/22/05

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Low pressure process for the manufacture of 3-dimethylaminopropylamine (dmapa)	Mexico	Pending	PA/A/2005/006883	6/23/05
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	North Korea	Granted	43770	6/22/06
<u> </u>	Poland	Pending	P-377466	6/23/05
Low pressure process for the	Russian Federation	Granted	2326108	6/10/08
	Singapore	Granted	113852	8/31/07
	South Korea	Pending	10-2005-7011872	6/23/05
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Taiwan	Published	092129434	10/23/03
	United States	Granted	6660887	12/9/03
	United States	Granted	6951959	10/4/05
	Vietnam	Allowed	1-2005-00872	6/23/05
	WO/PCT	Pending	PCTUS0339447	12/12/03
Low surface energy fibers	United States	Granted	6287689	9/11/01
Low surface energy fibers	United States	Granted	6630087	10/7/03
Method and apparatus for splicing indeterminate length fiber tow ends	United States	Granted	6955132	10/18/05
Method for production of phenol and it derivatives	s Australia	Granted	684948	2/1/98
Method for production of phenol and it derivatives	s Austria	Granted	0755371	8/4/99

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Method for production of phenol and its derivatives	Belgium	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	Brazil	Granted	PI95073701	7/8/03
Method for production of phenol and its derivatives	Canada	Granted	2187656	8/21/01
Method for production of phenol and its derivatives	China	Granted	951932195	9/26/01
Method for production of phenol and its derivatives	Denmark	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	European Patent Office	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	Finland	Granted	117628	12/29/06
Method for production of phenol and its derivatives	s France	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	s Germany	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	sGreat Britain	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	s Italy	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	s Japan	Granted	2961128	8/6/99
Method for production of phenol and its derivatives	s Mexico	Granted	192184	5/28/99
Method for production of phenol and its derivatives	s Netherlands	Granted	0755371	8/4/99
Method for production of phenol and it derivatives	sPoland	Granted	179735	3/2/00
Method for production of phenol and it derivatives	s Portugal	Granted	0755371	8/4/99

Title	Jurisdiction	Status	Patent No./	Filing Date/
			Application Number	Grant Date
Method for production of phenol and its derivatives	South Korea	Granted	231872	9/1/99
Method for production of phenol and its derivatives	Spain	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	Sweden	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	Switzerland	Granted	0755371	8/4/99
Method for production of phenol and its derivatives	United States	Granted	5756861	5/26/98
Method for production of phenol and its derivatives	Viet Nam	Granted	1496	9/12/00
Method for removing color from ionically dyeable polymeric materials	Canada	Allowed	2261303	2/5/99
Method for removing color from ionically dyeable polymeric materials	European Patent Office	Published	991179474	9/15/99
Method for removing color from ionically dyeable polymeric materials	United States	Granted	6083283	7/4/00
Method of coating nylon & polyester fibers with water dispersible polyvinyl acetate & coating achieved therefrom	United States	Published	09/216,621	
Method of dyeing cationic dyeable nylon with fiber reactive dyes without heat setting		Granted	5972046	10/26/99
Method of dyeing nylon to produce colorfast fiber which resists further dyeing		Granted	2151797	2/15/05
Method of dyeing nylon to produce colorfast fiber which resists further dyeing		Granted	211724	12/2/02
Method of dyeing nylon to produce colorfast fiber which resists further dyeing		Granted	5445653	8/29/95
Modacrylic copolymer composition	United States	Granted	6048955	4/11/00
Non-halogenated polamide composition	Canada	Published	2353500	12/7/99

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Non-halogenated polamide composition	China	Granted	ZL998141461	5/19/04
Non-halogenated polamide composition	European Patent Office	Granted-Opposed	1144497	4/13/05
Non-halogenated polamide composition	France	Granted	1144497	4/13/05
Non-halogenated polamide composition	Germany	Granted	69924757808	4/13/05
Non-halogenated polamide composition	Great Britain	Granted	1144497	4/13/05
Non-halogenated polamide composition	Italy	Granted	1144497	4/13/05
Non-halogenated polamide composition	Japan	Published	2000586815	12/7/99
Non-halogenated polamide composition	Mexico	Granted	222269	8/23/04
Non-halogenated polamide composition	Netherlands	Granted	1144497	4/13/05
Non-halogenated polamide composition	South Korea	Granted	633377	10/2/06
Non-halogenated polamide composition	Spain	Granted	1144497	4/13/05
Non-halogenated polamide composition	United States	Granted	6562896	5/13/03
Nucleation of polyamides in the presence of hypophosphite	e Taiwan	Granted	NI183281	8/11/03
Nucleation of polyamides in the presence of hypophosphite	e United States	Granted	6197855	3/6/01
Nylon fiber blends for saxony carpets	United States	Granted	5593751	1/14/97
Oxidation if isopropy dyphenylphasphinite catalyst for a dimerization	United States	Granted	4952541	8/28/90

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Polyacrylonitrile particles by surfmer polymerization and sodium removal by chemical exchange	United States	Granted	6277933	8/21/01
Polyacrylonitrile polymer treatment	United States	Granted	6143835	11/7/00
Preparation of block detergent containing nta	United States	Granted	5425895	6/20/95
Preparation of phenol or phenol derivatives	United States	Granted	5874646	2/23/99
Preparation of phenol or phenol derivatives	United States	Granted	5110995	5/5/92
Process for dyeing stain resistant nylon carpets	United States	Granted	4892558	1/9/90
Process for dyeing stain resistant nylon carpets	United States	Granted	5182154	1/26/93
Process for making phenol or phenol derivatives	United States	Granted	6156938	12/5/00
Process for making stain resistant nylon fibers from highly sulfonated nylon copolymers		Granted	5889138	3/30/99
Process for manufacture of dimethyl acetamide	United States	Granted	6399825	6/4/02
Process for nitrous oxide purification	Brazil	Allowed	PI99173620	11/26/01
Process for nitrous oxide purification	Canada	Allowed	2374804	11/1/99
Process for nitrous oxide purification	China	Published	998168181	1/21/02
Process for nitrous oxide purification	European Paten Office	t Granted	1198413 <b>B</b> 1	9/20/06
Process for nitrous oxide purification	France	Granted	1198413B1	9/20/06
Process for nitrous oxide purification	Germany	Granted	69933315.6-08	9/20/06

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Process for nitrous oxide purification	Great Britain	Granted	1198413B1	9/20/06
Process for nitrous oxide purification	Japan	Published	2000621278	11/1/99
Process for nitrous oxide purification	Singapore	Granted	85275	3/31/04
Process for nitrous oxide purification	South Korea	Granted	626713	9/14/06
Process for nitrous oxide purification	Taiwan	Granted	NI200593	5/1/04
Process for nitrous oxide purification	United States	Granted	7070746	7/4/06
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	e Brazil	Published	PI03047776	10/28/03
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	Bulgaria	Allowed	032569444	11/3/03
Process for preparing a catalyst for the oxidation and ammoxidation of olefins		Allowed	032569444	11/3/03
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	e Germany	Allowed	032569444	11/3/03
Process for preparing a catalyst for th oxidation and ammoxidation of olefins	e Great Britain	Allowed	032569444	11/3/03
Process for preparing a catalyst for th oxidation and ammoxidation of olefins	eIndia	Pending	01322/DEL/2003	10/27/03
Process for preparing a catalyst for th oxidation and ammoxidation of olefins	e Japan	Pending	2003371541	10/31/03
Process for preparing a catalyst for th oxidation and ammoxidation of olefins		Granted	242331	11/30/06
Process for preparing a catalyst for th oxidation and ammoxidation of olefins		Allowed	032569444	11/3/03
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	e Russian Federation	Allowed	2003132761	11/3/03

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	Saudi Arabia	Granted	1817	7/31/07
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	South Korea	Pending	1020030076249	10/30/03
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	Taiwan	Pending	092130675	11/3/03
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	Thailand	Pending	086149	10/28/03
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	Turkey	Allowed	032569444	11/3/03
Process for preparing a catalyst for the oxidation and ammoxidation of olefins	United States	Granted	6916763	7/12/05
Process for purifying acrylonitrile	Australia	Granted	734725	10/4/01
Process for purifying acrylonitrile	China	Granted	ZL971807485	6/4/03
Process for purifying acrylonitrile	European Paten Office	t Granted	00938469	6/20/01
Process for purifying acrylonitrile	Germany	Granted	697053210	6/20/01
Process for purifying acrylonitrile	India	Granted	208012	7/6/07
Process for purifying acrylonitrile	Italy	Granted	00938469	6/20/01
Process for purifying acrylonitrile	Japan	Pending	519557/98	10/17/97
Process for purifying acrylonitrile	Mexico	Granted	214821	6/20/03
Process for purifying acrylonitrile	Netherlands	Granted	00938469	6/20/01
Process for purifying acrylonitrile	Pakistan	Granted	135928	11/13/99

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Singapore	Granted	65188	11/21/00
South Korea	Granted	498803	6/23/05
Spain	Granted	00938469	6/20/01
Taiwan	Granted	NI133117	9/25/01
United States	Granted	5895822	4/20/99
Brazil	Pending	PI03034682	9/5/03
China	Granted	ZL03164968.8	9/20/06
India	Pending	1097DEL2003	9/3/03
Japan	Published	2003313846	9/5/03
Mexico	Granted	243025	1/8/07
Russian Federation	Granted	2288775	12/10/06
South Korea	Pending	1020030063571	9/15/03
Taiwan	Published	092124620	9/5/03
Thailand	Published	085028	9/4/03
United States	Granted	6953558	10/11/05
European Paten Office	Published	04755779.8	12/21/05
	Singapore  South Korea  Spain  Taiwan  United States  Brazil  China  India  Japan  Mexico  Russian Federation  South Korea  Taiwan  Taiwan	Singapore Granted  South Korea Granted  Spain Granted  Taiwan Granted  United States Granted  Brazil Pending  China Granted  India Pending  Japan Published  Mexico Granted  Russian Granted  Russian Granted  Russian Granted  South Korea Pending  Taiwan Published  Thailand Published  United States Granted	Singapore Granted 65188  South Korea Granted 498803  Spain Granted 00938469  Taiwan Granted NI133117  United States Granted 5895822  Brazil Pending PI03034682  China Granted ZL03164968.8  India Pending 1097DEL2003  Japan Published 2003313846  Mexico Granted 243025  PRussian Federation Federation Pending 1020030063571  South Korea Pending 1020030063571  e Taiwan Published 092124620  e Thailand Published 085028  e United States Granted 6953558  n European Patent Published 04755779.8

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Process for removal of acrolein from acrylonitrile product streams	Cooperation Council for Arab States of the Gulf		GCC/P/2004/3588	6/26/04
Process for removal of acrolein from acrylonitrile product streams	India	Pending	3546/CHENP/2005	12/27/05
Process for removal of acrolein from acrylonitrile product streams	Japan	Pending	2006-517493	6/21/04
Process for removal of acrolein from acrylonitrile product streams	Mexico	Pending	PA/A/2005/014189	12/21/05
Process for removal of acrolein from acrylonitrile product streams	South Korea	Pending	10-2005-7024765	12/23/05
Process for removal of acrolein from acrylonitrile product streams	Taiwan	Published	093118688	6/27/04
Process for removal of acrolein from acrylonitrile product streams	Thailand	Pending		6/27/04
Process for removal of acrolein from acrylonitrile product streams	United States	Granted	7196231	3/27/07
Process for removal of acrolein from acrylonitrile product streams	United States	Allowed	11678329	2/23/07
Process for separating polyamide from colorant	Canada	Allowed	2261304	2/5/99
Process for separating polyamide fron colorant	United States	Granted	6036726	3/14/00
Process of catalytic ammoxidation fo hydrogen cyanide production	rSaudi Arabia	Pending	08290378	6/24/08
Process of catalytic ammoxidation fo hydrogen cyanide production	r Taiwan	Pending	ТВА	6/24/08
Process of catalytic ammoxidation fo hydrogen cyanide production	rThailand	Pending	ТВА	6/24/08
Process of catalytic ammoxidation fo hydrogen cyanide production	r United States	Pending	11767555	6/25/07
Process of catalytic ammoxidation for hydrogen cyanide production	or WO/PCT	Pending	ТВА	6/24/08

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Process to improve resistance to stains on fibers and derived products	Canada	Granted	2181914	9/24/02
Process to improve resistance to stains on fibers and derived products	France	Granted	EP0741812	10/13/99
Process to improve resistance to stains on fibers and derived products	Germany	Granted	DE69512766.7	10/13/99
Process to improve resistance to stains on fibers and derived products	United States	Granted	5738688	4/14/98
Process to improve resistance to stains on yarns and derived products	Canada	Granted	2172988	5/11/04
Process to improve resistance to stains on yarns and derived products	France	Granted	EP0721524	12/5/01
Process to improve resistance to stains on yarns and derived products	Germany	Granted	DE69429360.1	12/5/01
Process to improve resistance to stains on yarns and derived products	United States	Granted	6024770	2/15/00
Producing thermoplastic composition by melt blending carpet	United States	Granted	5591802	1/7/97
Selective introduction of active sites for hydroxylation of benzene	United States	Granted	5808167	9/15/98
Solution-spun antiflea fibers	United States	Granted	5079063	1/7/92
Spin pack and spinneret for wet spur bicomponent fibers	United States	Granted	5017116	5/21/91
Tacky polymer melt spinning process	United States	Granted	7261849 B2	8/28/07
Thermoplastic composition and method for producing thermoplastic composition by melt blending carpet heating, pressurizing and mixing a sample comprising nylon tufts polyolefin backing and butadiene-styrene adhesive	; ,	Granted	5294384	3/15/94
Thermoplastic composition and method for producing thermoplastic composition by melt blending carpet		Granted	5498667	3/12/96

Title	Jurisdiction	Status	Patent No./ Application Number	Filing Date/ Grant Date
Triboelectric fibers	United States	Pending	11078377	3/14/05
Trifoliate cross-section carpet fibers	United States	Granted	5334452	8/2/94
Use of fluidized bed reactors for treatment of wastes containing organic nitrogen compounds	United States	Granted	5540840	7/30/96
Yarn bobbin with improved snagger	United States	Granted	5791574	8/11/98

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