

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM664612

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT OF THE ENTIRE INTEREST AND THE GOODWILL		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
PQ Corporation		07/29/2021	Corporation: PENNSYLVANIA
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Ecovyst Catalyst Technologies LLC		
<b>Street Address:</b>	300 Lindenwood Drive		
<b>City:</b>	Malvern		
<b>State/Country:</b>	PENNSYLVANIA		
<b>Postal Code:</b>	19355		
<b>Entity Type:</b>	Limited Liability Company: DELAWARE		
<b>PROPERTY NUMBERS Total: 3</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	3817359	ALPHACAT	
<b>Serial Number:</b>	90628336	ECOVYST	
<b>Serial Number:</b>	90628334	ECOVYST	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	4125621041		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
<b>Phone:</b>	4125621637		
<b>Email:</b>	vicki.cremonese@bjpc.com		
<b>Correspondent Name:</b>	Michael L. Dever		
<b>Address Line 1:</b>	501 Grant Street		
<b>Address Line 2:</b>	Suite 200		
<b>Address Line 4:</b>	Pittsburgh, PENNSYLVANIA 15219		
<b>ATTORNEY DOCKET NUMBER:</b>	0104328-000002		
<b>NAME OF SUBMITTER:</b>	Michael L. Dever		
<b>SIGNATURE:</b>	/Michael L. Dever/		
<b>DATE SIGNED:</b>	08/03/2021		
<b>Total Attachments: 32</b>			
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## PATENT AND TRADEMARK ASSIGNMENT AGREEMENT

This Patent And Trademark Assignment Agreement ("Agreement"), effective as of July 29, 2021 ("Effective Date"), is entered into by and between PQ CORPORATION, a Pennsylvania corporation, ("Assignor") and ECOVYST CATALYST TECHNOLOGIES LLC, a Delaware limited liability company ("Assignee"). Assignor and Assignee are each individually referred to herein as a "Party".

**WHEREAS**, Assignor and Assignee are parties to that certain Contribution and Assignment Agreement effective as of even date herewith, pursuant to which Assignor agreed to and did assign to Assignee certain patents, trademarks, service marks, logos, trade dress, slogans, symbols and trade names and domain names, and other indicia of commercial source or origin (whether registered, common law, statutory or otherwise), and all registrations and applications to register the foregoing, in each case anywhere in the world, and

**WHEREAS**, Assignor wishes to assign to Assignee, and Assignee wishes to acquire from Assignor, the patents and trademark registrations, and applications therefore, listed in Schedule A attached hereto (the "Intellectual Property").

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows.

1. **Assignment.** Assignor hereby irrevocably sells, assigns, conveys, and transfers to Assignee all of Assignor's right, title and interest in and to the Intellectual Property for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors, assigns or other legal representatives, together with all (i) patents, registrations, issuances, extensions, and renewals thereof, together with the goodwill of the business connected with the use of, and symbolized by, the trademarks, (ii) any and all income, royalties, payments and other proceeds now or hereafter due or payable with respect to the Intellectual Property, (iii) any and all claims and causes of action with respect to the Intellectual Property, whether accruing before, on, or after the Effective Date, including all rights to claims for damages, injunctive relief, and other legal and equitable relief by reason of past, present or future infringement or other unauthorized use of the Intellectual Property, with the right (but not the obligation) to sue for, and collect the same for Assignee's own use and enjoyment and for the use and enjoyment of its successors, assigns or other legal representatives. Assignor makes no representations and warranties concerning the Intellectual Property to Assignee.

2. **Further Assurances.** Each Party hereto shall execute and deliver such additional documents, instruments, conveyances, and assurances, and take such further actions as may be reasonably required to carry out the provisions hereof and give effect to the transactions contemplated by this Agreement and the documents to be delivered hereunder.

3. **Counterparts.** This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this Agreement delivered by facsimile, email, or other means of electronic transmission (to which a signed PDF copy is attached) shall be deemed to have the same legal effect as delivery of an original signed copy of this Agreement.

4. **Successors and Assigns.** This Agreement shall be binding upon and shall inure to the benefit of the Parties hereto and their respective successors and assigns.

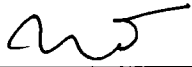
5. **Governing Law.** This Agreement, and all claims or causes of action (whether in contract, tort or statute) that may be based upon, arise out of or relate to this Agreement, or the negotiation, execution or performance of this Agreement (including any claim or cause of action based upon, arising out of or related to any representation or warranty made in or in connection with this Agreement or as an inducement to enter into this Agreement), shall be governed by, and enforced in accordance with, the internal laws of the State of Pennsylvania, including its statutes of limitations, without regard to any borrowing statute that would result in the application of the statute of limitations of any other jurisdiction.

\* \* \* \* \*

*[Signature Page to Follow]*

IN WITNESS WHEREOF, Assignor and Assignee have caused this Agreement to be executed by their duly authorized representatives as of the Effective Date.

PQ Corporation, as Assignor

By: 


Name: Joseph S. Koscinski

Title: Vice President, Secretary and General Counsel

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF ALLEGHENY


This Agreement was executed before me, the undersigned Notary Public, on July 29, 2021, by Joseph S. Koscinski, Vice President, Secretary and General Counsel of PQ Corporation, a Pennsylvania corporation, and that he, as such officer, being authorized to do so, executed the foregoing Agreement for the purposes herein contained on behalf of the corporation.

  
\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

Commonwealth of Pennsylvania - Notary Seal  
Vicki Cremonese, Notary Public  
Allegheny County  
My commission expires February 8, 2023  
Commission number 1032595  
Member, Pennsylvania Association of Notaries

**Ecovyst Catalyst Technologies LLC, as Assignee**

By: 

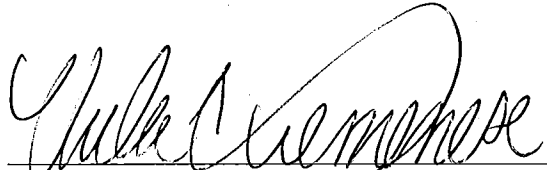
Name: Joseph S. Koscinski

Title: Director and Manager

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF ALLEGHENY

This Agreement was executed before me, the undersigned Notary Public, on July 29, 2021, by Joseph S. Koscinski, Director and Manager of Ecovyst Catalyst Technologies LLC, a Delaware limited liability company, and that he, as such director and manager, being authorized to do so, executed the foregoing Agreement for the purposes herein contained on behalf of the company.

  
\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

Commonwealth of Pennsylvania - Notary Seal  
Vicki Cremonese, Notary Public  
Allegheny County  
My commission expires February 8, 2023  
Commission number 1032595  
Member, Pennsylvania Association of Notaries

SCHEDULE A

Issued Patents

United States

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#	EXPIRATION DATE
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	US	6/23/2011	13/805,512	1/5/2016	9,228,029	11/17/2030
HIGH SILICA CHABAZITE FOR SELECTIVE CATALYTIC REDUCTION, METHODS OF MAKING AND USING SAME	US	12/17/2009	12/641,201	8/20/2019	10,384,162	6/5/2032
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	US	9/25/2001	09/964,177	5/3/2005	6,887,822	12/5/2021
NOVEL IRON-CONTAINING ALUMINOSILICATE ZEOLITES AND METHODS OF MAKING AND USING SAME	US	2/16/2010	12/706,655	8/20/2013	8,512,659	2/16/2030
NOVEL IRON-CONTAINING ALUMINOSILICATE ZEOLITES AND METHODS OF MAKING AND USING THE SAME	US	8/13/2008	12/190,993	9/14/2013	8,541,331	4/5/2029

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#	EXPIRATION DATE
NOVEL MICROPOROUS CRYSTALLINE MATERIAL COMPRISING A MOLECULAR SIEVE OR ZEOLITE HAVING AN 8-RING PORE OPENING STRUCTURE AND METHODS OF MAKING AND USING SAME	US	3/26/2008	12/005,639	01/12/2010	7,645,718	3/26/2028
NOVEL MICROPOROUS CRYSTALLINE MATERIAL COMPRISING A MOLECULAR SIEVE OR ZEOLITE HAVING AN 8-RING PORE OPENING STRUCTURE AND METHODS OF MAKING AND USING SAME	US	10/01/2009	12/572,188	02/08/2011	7,883,678	3/26/2028
PROCESS FOR PREPARING A MODIFIED ZEOLITE	US	12/19/2000	09/673,286	2/18/2003	6,521,208	12/19/2020
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	US	11/5/2013	14/072,202	11/28/2017	9,827,560	12/04/2035
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	US	11/30/2012	13/691,710	5/29/2018	9,981,256	04/30/2035



TITLE	COUNTRY	FILED	SERIAL #	ISSUED	PATENT#	EXPIRATION DATE
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	US	11/30/2012	13/691,727	12/13/2016	9,517,458	03/27/2035
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	US	4/09/2015	14/682,640	8/13/2019	10,377,638	3/21/2037
ZEOLITE Y	US	1/16/2014	14/157,022	4/12/2016	9,308,521	3/16/2031
PREPARATION OF MOLECULAR SIEVES INVOLVING SPRAY DRYING*	US	4/14/2005	11/107,496	11/28/2006	7,141,232	9/24/2023

\*co-owned with Chevron

International

TITLE	COUNTRY	FILED	SERIAL #	ISSUED	PATENT#
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	ALGERIA	6/23/2011	12012502451		130047
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	AUSTRIA	5/18/2011	117219642	4/16/2014	EP2571604 E662154
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	AZERBAIJAN				027044
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	BELARUS				027044
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	BELGIUM				2585214
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	BELGIUM	5/18/2011	117219642	4/16/2014	EP2571604
PREPARATION OF SILICA- ALUMINA COMPOSITION	BELGIUM	12/18/2013	13869811.3	3/20/2019	2938431
ZEOLITE Y	BELGIUM	4/28/2010	10770236.7	12/16/2020	2424661
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	BRAZIL	6/23/2011	BR1120120328271		BR 112012032827- 1
METHOD FOR MAKING SILICA SUPPORTED, CRUSH- RESISTANT CATALYSTS	BRAZIL	9/25/2002	PI0212811-0	7/23/2019	PI0212811-0

TITLE	COUNTRY	FILED	SERIAL #	ISSUED	PATENT#
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	BRAZIL	5/18/2011	11 2012 0296485	12/22/2020	BR112012029648-5
ZEOLITE Y	BRAZIL	4/28/2010	PI1014350-5	2/9/2021	PI1014350-5
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	CANADA	9/25/2002	2,460,979	1/3/2012	2,460,979
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	CANADA	5/18/2011	2,880,393		2,880,393
ZEOLITE Y	CANADA	4/28/2010	2760181	12/20/2016	2760181
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	CHINA	6/23/2011	2011800312296		258214
LARGE CRYSTAL, ORGANIC-FREE CHABAZITE, METHODS OF MAKING AND USING THE SAME	CHINA	4/17/2012	201280025744.8 CN103561865A	2/5/2014	ZL201280025744.8
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	CHINA	9/25/2002	02818734.2	8/20/2008	ZL02818734.2
NOVEL IRON-CONTAINING ALUMINOSILICATE ZEOLITES AND METHODS OF MAKING AND USING THE SAME	CHINA	8/13/2008	200880103011.5	11/6/2013	ZL20088010311.5
NOVEL IRON-CONTAINING ALUMINOSILICATE ZEOLITES AND METHODS OF MAKING AND USING THE SAME	CHINA	8/13/2008	201210123893.X		ZL201210123893.1

TITLE	COUNTRY	FILED	SERIAL #	ISSUED	PATENT#
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	CHINA	5/18/2011	201180032195.2		ZL201180032195.2
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	CHINA	5/18/2011	201510593813.0	9/15/2020	ZL201510593813.0
PREPARATION OF SILICA-ALUMINA COMPOSITION	CHINA	12/18/2013	201380068216.5	7/14/2017	ZL201380068216.5
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	CHINA	11/5/2013	201380065429.2	1/22/2019	ZL201380065429.2
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	CHINA	11/30/2012	201280058960.2	10/23/2018	103987662
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	CZECH REPUBLIC				2585214
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	DENMARK	5/18/2011	117219642	4/16/2014	EP2571604
PREPARATION OF SILICA-ALUMINA COMPOSITION	DENMARK	12/18/2013	13869811.3	3/20/2019	2938431
ZEOLITE Y	DENMARK	4/28/2010	10770236.7	12/16/2020	2424661
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	EURASIAN PATENT OFFICE	6/123/2011	201390023	6/30/2017	027044

TITLE	COUNTRY	FILED	SERIAL #	ISSUED	PATENT #
HIGH SURFACE AREA ZEOLITES AND METHODS FOR PREPARATION AND USE	EUROPEAN PATENT	11/25/2003	03787053.2	10/21/2015	1613426
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	EUROPEAN PATENT	9/25/2002	02775975.2	3/29/2006	1429865
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	EUROPEAN PATENT	5/18/2011	11721964.2	4/16/2014	2571604
PREPARATION OF SILICA-ALUMINA COMPOSITION	EUROPEAN PATENT	12/18/2013	13869811.3	3/20/2019	2938431
PROCESS FOR PREPARING A MODIFIED ZEOLITE	EUROPEAN PATENT	3/3/2000	00916101.9	9/29/2004	1156985
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	EUROPEAN PATENT	11/30/2012	12801688.8	5/1/2019	2785644
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	EUROPEAN PATENT	11/30/2012	12805498.8	7/1/2020	2785643

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	EUROPEAN PATENT	4/9/2015	15719054-7	6/9/2021	3307434
ZEOLITE Y	EUROPEAN PATENT	4/28/2010	10770236.7	12/16/2020	2424661
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	FINLAND	5/18/2011	117219642	4/16/2014	EP2571604
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	FRANCE				2585214
HIGH SURFACE AREA ZEOLITES AND METHODS FOR PREPARATION AND USE	FRANCE	11/25/2003	03787053.2	10/21/2015	1613426
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	FRANCE	9/25/2002	02775975.2	3/29/2006	1429865
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	FRANCE	5/18/2011	117219642	4/16/2014	EP2571604
PREPARATION OF SILICA-ALUMINA COMPOSITION	FRANCE	12/18/2013	13869811.3	3/20/2019	2938431

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	FRANCE	4/9/2015	15719054-7	6/9/2021	3307434
ZEOLITE Y	FRANCE	4/28/2010	10770236.7	12/16/2020	2424661
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	GERMANY				602011029324.9
HIGH SURFACE AREA ZEOLITES AND METHODS FOR PREPARATION AND USE	GERMANY	11/25/2003	03787053.2	10/21/2015	60348173.6
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	GERMANY	9/25/2002	02775975.2	3/29/2006	60210316.9
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	GERMANY	5/18/2011	117219642	4/16/2014	602011006235.2
PREPARATION OF SILICA-ALUMINA COMPOSITION	GERMANY	12/18/2013	13869811.3	3/20/2019	602013052765.2
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	GERMANY	4/9/2015	15719054-7	6/9/2021	3307434
ZEOLITE Y	GERMANY	4/28/2010	10770236.7	12/16/2020	602010066164.4

TITLE	COUNTRY	FILED	SERIAL #	ISSUED	PATENT#
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	HUNGARY				2585214
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	INDIA	6/23/2011	11382DELNP2012		300676
NOVEL IRON-CONTAINING ALUMINOSILICATE ZEOLITES AND METHODS OF MAKING AND USING THE SAME	INDIA	8/13/2008	1190/DELNP/2010	9/7/2016	275488
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	INDIA	11/30/2012	4715/DELNP/2014	10/14/2019	322751
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	INDIA	4/9/2015	201727035284	12/1/2020	352782
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	INDIA	11/30/2012	4463/DELNP/2014	7/16/2020	341726
ZEOLITE Y	INDIA	4/28/2010	7918/CHENP/2011	8/28/2018	300404



TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	INDONESIA	6/23/2011	W00201300251	8/08/2016	42190
NOVEL MICROPOROUS CRYSTALLINE MATERIAL COMPRISING A MOLECULAR SIEVE OR ZEOLITE HAVING AN 8-RING PORE OPENING STRUCTURE AND METHODS OF MAKING AND USING SAME	INDONESIA	3/26/2008	W-002009-02671	10/29/2012	ID P0032145
NOVEL MICROPOROUS CRYSTALLINE MATERIAL COMPRISING A MOLECULAR SIEVE OR ZEOLITE HAVING AN 8-RING PORE OPENING STRUCTURE AND METHODS OF MAKING AND USING SAME	INDONESIA	3/26/2008	W-00 2012 03372	10/3/2016	IDP000042891
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	IRELAND				2585214
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	ITALY				2585214
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	ITALY	9/25/2002	02775975.2	3/29/2006	1429865

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	ITALY	5/18/2011	117219642	4/16/2014	EP2571604
PREPARATION OF SILICA-ALUMINA COMPOSITION	ITALY	12/18/2013	13869811.3	3/20/2019	2938431
ZEOLITE Y	ITALY	4/28/2010	10770236.7	12/16/2020	2424661
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	JAPAN	6/23/2011	2013515956		5944894
FE-SAPO-34 CATALYST AND METHODS OF MAKING AND USING THE SAME	JAPAN	4/3/2012	2014-503909	3/10/2017	6104882
LARGE CRYSTAL, ORGANIC-FREE CHABAZITE, METHODS OF MAKING AND USING THE SAME	JAPAN	4/17/2012	2014-506486	7/7/2017	6169069
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	JAPAN	9/25/2002	2003-530422	12/3/2010	4636797
NOVEL IRON-CONTAINING ALUMINOSILICATE ZEOLITES AND METHODS OF MAKING AND USING THE SAME	JAPAN	8/13/2008	2010-521012	7/7/2017	6176891
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	JAPAN	5/18/2011	2013 512084		5797749

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION AND METHODS OF MAKING THE SAME	JAPAN	5/18/2011	2015 162106		6231525
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION AND METHODS OF MAKING THE SAME	JAPAN	1/27/2017	2017-013329	9/7/2018	6397064
PREPARATION OF SILICA-ALUMINA COMPOSITION	JAPAN	12/18/2013	2015-550481	1/27/2017	6080980
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	JAPAN	11/5/2013	2015-541847	8/10/2018	6382828
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	JAPAN	11/30/2012	2014-544966	03/10/2017	6104270
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	JAPAN	11/30/2012	2014-544961	4/13/2018	6320298

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	JAPAN	11/30/2012	2017-036467	11/2/2018	6427610
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	JAPAN	4/9/2015	2017-552893	3/29/2019	6503473
ZEOHITE Y	JAPAN	4/28/2010	2012-508624	1/15/2016	5868314
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	KAZAKHSTAN				027044
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	KOREA	6/23/2011	20137002006		10-1820064
LARGE CRYSTAL, ORGANIC-FREE CHABAZITE, METHODS OF MAKING AND USING THE SAME	KOREA	4/17/2012	10-2013-7030394 (10-2014-0027280)	2/12/2018	10-1830326
LARGE CRYSTAL, ORGANIC-FREE CHABAZITE, METHODS OF MAKING AND USING THE SAME	KOREA	4/17/2012	10-2018-7004270	2/8/2019	10-1948254
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	KOREA	9/25/2002	10-2004-7004385		10-09413891

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	KOREA	5/18/2011	10-2012-7033505 (10-2013-0109980)	4/19/2018	10-1852143
SMALL CRYSTAL FERRITERITE AND METHOD OF MAKING THE SAME	KOREA	11/5/2013	10-2015-7014607	3/24/2021	10-2233921
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	KOREA	11/30/2012	10-2014-7018398	10/21/2020	10-2170639
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	KOREA	11/30/2012	10-2014-7018399	2/14/2020	10-2078083
ZEOLITE Y	KOREA	4/28/2010	10-2011-7023472	4/13/2017	1728563
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	MACEDONIA	5/18/2011	117219642	4/16/2014	EP2571604
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	MALAYSIA	6/23/2011	PI2012005567	3/15/2017	MY-160564-A
HIGH SILICA CHABAZITE FOR SELECTIVE CATALYTIC REDUCTION, METHODS OF MAKING AND USING SAME	MALAYSIA	3/26/2012	PI2012001354	11/12/2020	MY-179762-A

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
NOVEL MICROPOROUS CRYSTALLINE MATERIAL COMPRISING A MOLECULAR SIEVE OR ZEOLITE HAVING AN 8-RING PORE OPENING STRUCTURE AND METHODS OF MAKING AND USING SAME	MALAYSIA	3/26/2008	P1 20093957	8/30/2012	MY146586-A
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	MEXICO	6/23/2011	MXa2018005772		337353
HIGH SILICA CHABAZITE FOR SELECTIVE CATALYTIC REDUCTION, METHODS OF MAKING AND USING SAME	MEXICO	11/2/2010	MX/a/2012/007059	3/29/2019	363706
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	MEXICO	9/25/2002	PA/A/2004/002760	11/30/2007	252053
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	MEXICO	5/18/2011	MX/a/2012/013535	11/7/2016	343465
NOVEL MICROPOROUS CRYSTALLINE MATERIAL COMPRISING A MOLECULAR SIEVE OR ZEOLITE HAVING AN 8-RING PORE OPENING STRUCTURE AND METHODS OF MAKING AND USING SAME	MEXICO	3/26/2008	MXa2009010369	5/14/2012	299154

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	NETHERLANDS				2585214
HIGH SURFACE AREA ZEOLITES AND METHODS FOR PREPARATION AND USE	NETHERLANDS	11/25/2003	03787053.2	10/21/2015	1613426
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	NETHERLANDS	9/25/2002	02775975.2	3/29/2006	1429865
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	NETHERLANDS	5/18/2011	117219642	4/16/2014	EP2571604
PREPARATION OF SILICA-ALUMINA COMPOSITION	NETHERLANDS	12/18/2013	13869811.3	3/20/2019	2938431
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	NETHERLANDS	4/9/2015	15719054-7	6/9/2021	3307434
ZEOLITE Y	NETHERLANDS	4/28/2010	10770236.7	12/16/2020	2424661
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	PHILIPPINES	6/23/2011	12012502451	1/31/2017	1-2012-502451
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	POLAND	5/18/2011	117219642	4/16/2014	EP2571604

TITLE	COUNTRY	FILED	SERIAL #	ISSUED	PATENT#
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	PORTUGAL	9/25/2002	02775975.2	3/29/2006	1429865
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	RUSSIAN FEDERATION				027044
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	RUSSIAN FEDERATION	5/18/2011	2012 155698	6/27/2014	2575727
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	RUSSIAN FEDERATION	5/18/2011	2016 101257		2641771
NOVEL MICROPOROUS CRYSTALLINE MATERIAL COMPRISING A MOLECULAR SIEVE OR ZEOLITE HAVING AN 8-RING PORE OPENING STRUCTURE AND METHODS OF MAKING AND USING SAME	RUSSIAN FEDERATION	3/26/2008	2009/139228	3/20/2012	2445166
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	RUSSIAN FEDERATION	11/5/2013	2015121786/20	12/26/2017	2640072
ZEOLITE Y	RUSSIAN FEDERATION	4/28/2010	20111148365	7/20/2013	2487756
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	SINGAPORE	6/23/2011	2012090940		10201507873Y
ZEOLITE Y	SINGAPORE	4/28/2010	201107250-1	7/21/2014	175067



TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	SOUTH AFRICA	9/25/2002	2004/02974	3/30/2005	2004/02974
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	SOUTH AFRICA	5/18/2011	2012/09485	2/26/2014	2012/09485
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	SOUTH AFRICA	5/18/2011	2013/09393		2013/09393
NOVEL MICROPOROUS CRYSTALLINE MATERIAL COMPRISING A MOLECULAR SIEVE OR ZEOLITE HAVING AN 8-RING PORE OPENING STRUCTURE AND METHODS OF MAKING AND USING SAME	SOUTH AFRICA	3/26/2008	2009/06488	5/26/2010	2009/06488
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	SPAIN				2585214
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	SPAIN	9/25/2002	02775975.2	3/29/2006	1429865
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	SPAIN	5/18/2011	117219642	4/16/2014	EP2571604
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	SWEDEN				2585214

TITLE	COUNTRY	FILED	SERIAL#	ISSUED	PATENT#
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	SWEDEN	5/18/2011	117219642	4/16/2014	EP2571604
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	SWITZERLAND				2585214
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	SWITZERLAND	5/18/2011	117219642	4/16/2014	EP2571604
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	TURKMENISTAN				027044
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	UNITED KINGDOM				2585214
METHOD FOR MAKING SILICA SUPPORTED, CRUSH-RESISTANT CATALYSTS	UNITED KINGDOM	9/25/2002	02775975.2	3/29/2006	1429865
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	UNITED KINGDOM	5/18/2011	117219642	4/16/2014	EP2571604
PREPARATION OF SILICA-ALUMINA COMPOSITION	UNITED KINGDOM	12/18/2013	13869811.3	3/20/2019	2938431
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	UNITED KINGDOM	4/9/2015	15719054-7	6/9/2021	3307434

TITLE	COUNTRY	FILED	SERIAL #	ISSUED	PATENT#
ZEOLITE Y	UNITED KINGDOM	4/28/2010	10770236.7	12/16/2020	2424661

Pending Patent Applications

United States

TITLE	COUNTRY	FILED	SERIAL#
CHABAZITE ZEOLITE SYNTHESIS WITH ORGANIC TEMPLATES	UNITED STATES	6/15/2020	16/901,395
CHROMIUM-ON-SILICA CATALYSTS AND METHODS OF MAKING THE SAME	UNITED STATES	2/28/2020	16/804,610
DIRECT SYNTHESIS OF METAL-CONTAINING CHA ZEOLITES	UNITED STATES	12/20/2019	16/723,145
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOx REDUCTION AND METHODS OF MAKING THE SAME	UNITED STATES	10/23/2018	16/168,356
PRODUCTION OF HYDROTHERMALLY STABLE CHA ZEOLITES	UNITED STATES	3/8/2019	16/296,907
PRODUCTION OF HYDROTHERMALLY STABLE CHA ZEOLITES	UNITED STATES	4/30/2019	16/398,465
STABLE SOLUTION OF SODIUM AND IRON SILICATE, PROCESS FOR PREPARING SAID SOLUTION AND USES THEREOF	UNITED STATES	8/14/2020	16/993,661
CHABAZITE ZEOLITE SYNTHESIS WITH COMBINED ORGANIC TEMPLATES	UNITED STATES	11/20/2020	63/116,432
METHOD FOR MANUFACTURING A SUPPORTED TANTALUM CATALYST	UNITED STATES	1/29/2021	63/143,484

TRADEMARK

REEL: 007377 FRAME: 0093

International

TITLE	COUNTRY	FILED	SERIAL #
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	ALGERIA	6/23/2011	12012502451
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	BRAZIL	6/23/2011	BR1120120328271
LOW SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	BRAZIL	4/30/2019	BR1120200216615
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	BRAZIL	11/5/2013	BR 11 2015 009957 2
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	BRAZIL	11/30/2012	112014012846-4
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	BRAZIL	9/29/2017	BR 11 2017 0210690
LOW SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	CANADA	4/30/2019	3097911
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	CHINA	6/23/2011	2011800312296
DIRECT SYNTHESIS OF METAL-CONTAINING CHA ZEOLITES	CHINA	12/20/2019	201980084059.4
LOW SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	CHINA	4/30/2019	201980028887.6

TITLE	COUNTRY	FILED	SERIAL#
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	CHINA	11/30/2012	201810052874
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	CHINA	4/9/2015	201580078465
ZEOILITE Y	CHINA	4/28/2010	201610238097.9
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	EGYPT	06/23/2011	21152012PCT
DIRECT SYNTHESIS OF METAL-CONTAINING CHA ZEOLITES	EUROPE	12/20/2019	19848844.7
FE-SAPO-34 CATALYST AND METHODS OF MAKING AND USING THE SAME	EUROPE	4/3/2012	12716161.0
LARGE CRYSTAL, ORGANIC-FREE CHABAZITE, METHODS OF MAKING AND USING THE SAME	EUROPE	4/17/2012	12773612.2
LOW SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	EUROPE	4/30/2019	19727168.7
NOVEL IRON-CONTAINING ALUMINOSILICATE ZEOLITES AND METHODS OF MAKING AND USING THE SAME	EUROPE	8/13/2008	08795258.6 (2192982)
NOVEL IRON-CONTAINING ALUMINOSILICATE ZEOLITES AND METHODS OF MAKING AND USING THE SAME	EUROPE	8/13/2008	13005098.2 (2689846)

TITLE	COUNTRY	FILED	SERIAL #
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	EUROPE	11/5/2013	13792197.9
ZEOLITE Y	GULF COOP COUNCIL	5/1/2010	GCC/P/2010/15781
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	INDIA	6/23/2011	11382DELNP2012
LOW SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	INDIA	4/30/2019	202017047272
NOVEL METAL-CONTAINING ZEOLITE BETA FOR NOX REDUCTION	INDIA	5/18/2011	10657/DELNP/2012
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	INDIA	11/5/2013	3946/DELNP/2015
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	JAPAN	6/23/2011	2013515956
LOW SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	JAPAN	4/30/2019	2020-560905
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	KOREA	6/23/2011	20137002006
LOW SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	KOREA	4/30/2019	10-2020-7034151
STABILIZED MICROPOROUS CRYSTALLINE MATERIAL, THE METHOD OF MAKING THE SAME, AND THE USE FOR SELECTIVE CATALYTIC REDUCTION OF NOX	KOREA	4/9/2015	10-2017-7032409
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	MALAYSIA	11/5/2013	PI 2015701455
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	MEXICO	6/23/2011	MXa2013000032

TITLE	COUNTRY	FILED	SERIAL #
LOW SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	RUSSIA	4/30/2019	2020138969
CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE AND USE	SINGAPORE	6/23/2011	2012090940
SMALL CRYSTAL FERRIERITE AND METHOD OF MAKING THE SAME	SOUTH AFRICA	11/5/2013	2015/03159
CHABAZITE ZEOLITE SYNTHESIS WITH ORGANIC TEMPLATES	WIPO	6/15/2020	PCT/US2020/037714
CHROMIUM-ON-SILICA CATALYSTS AND METHODS OF MAKING THE SAME	WIPO	2/28/2020	PCT/US2020/020323
DIRECT SYNTHESIS OF METAL-CONTAINING CHA ZEOLITES	WIPO	12/20/2019	PCT/US2019/067886
LOW-SILICA CHABAZITE ZEOLITES WITH HIGH ACIDITY	WIPO	04/30/2019	PCT/US2019/029814
PRODUCTION OF HYDROTHERMALLY STABLE CHA ZEOLITES	WIPO	03/08/2019	PCT/US2019/021349



Trademark Registrations

United States

MARK	COUNTRY	FILED	APPL#	REGDT	REG#
ALPHACAT	UNITED STATES	11/19/2009	77/876,342	7/13/2010	3,817,359

International

MARK	COUNTRY	FILED	APPL#	REGDT	REG#
ALPHACAT	BRAZIL	5/17/2010	830622489	1/12/2014	830622489
ALPHACAT	CHINA	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	EUROPEAN UNION	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	FRANCE	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	GERMANY	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	ITALY	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	JAPAN	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	MEXICO	4/30/2010	1086436	11/25/2010	1190866
ALPHACAT	PORTUGAL	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	SAUDI ARABIA	4/26/2010	154145	4/11/2011	1242/69
ALPHACAT	SINGAPORE	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	SOUTH AFRICA	4/23/2010	2010/08619	2/07/2012	2010/08619
ALPHACAT	SOUTH KOREA	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	SPAIN	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	UNITED KINGDOM	4/22/2010	1037482	4/22/2010	1037482
ALPHACAT	UNITED KINGDOM	4/22/2010		4/22/2010	UK0091037482
ALPHACAT	WIPO / MADRID	4/22/2010	1037482	4/22/2010	1037482

Trademark Applications

United States

MARK	COUNTRY	FILED	APPL #	STATUS
ECOVYST	UNITED STATES	4/07/2021	90/628,336	PENDING
ECOVYST & Design	UNITED STATES	4/07/2021	90/628,334	PENDING

International

MARK	COUNTRY	FILED	APPL #	STATUS
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