

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM676315

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST
<b>SEQUENCE:</b>	1

## CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Goldman Sachs Bank USA		09/22/2021	Chartered Bank: NEW YORK

## RECEIVING PARTY DATA

<b>Name:</b>	W. R. Grace & Co.-Conn.
<b>Street Address:</b>	7500 Grace Drive
<b>City:</b>	Columbia
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	21044
<b>Entity Type:</b>	Corporation: CONNECTICUT

## PROPERTY NUMBERS Total: 88

Property Type	Number	Word Mark
Registration Number:	4756698	ACHIEVE
Registration Number:	2736132	ADVANTA
Registration Number:	4071230	ALCYON
Registration Number:	1265450	ALLTECH
Registration Number:	4071228	ASTERA
Registration Number:	0795991	CATALAGRAM
Registration Number:	4539873	CONSISTA
Registration Number:	1490721	CP
Registration Number:	1834238	DARACLAR
Registration Number:	2229578	DAVICAT
Registration Number:	2732453	DAVISIL
Registration Number:	2505595	DENOX
Registration Number:	2285510	DESOX
Registration Number:	2743553	D-PRISM
Registration Number:	2637589	E-CATALYSTS
Registration Number:	2767419	E-CATALYSTS
Registration Number:	2780075	
Registration Number:	2779897	E-CATALYSTS.COM

CH \$2215.00 4756698

<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>
<b>Registration Number:</b>	4198999	ENCORE
<b>Registration Number:</b>	4118831	ENRICH
<b>Registration Number:</b>	3719353	FLOWMOTION
<b>Registration Number:</b>	1688336	G-CON
<b>Registration Number:</b>	3661638	GENESIS
<b>Registration Number:</b>	1347037	GR
<b>Registration Number:</b>	2203422	GRACE
<b>Registration Number:</b>	2206302	GRACE
<b>Registration Number:</b>	1607468	GRACE
<b>Registration Number:</b>	0733284	GRACE
<b>Registration Number:</b>	1751126	GRACE
<b>Registration Number:</b>	1758304	GRACE
<b>Registration Number:</b>	1813264	GRACE
<b>Registration Number:</b>	1995531	GRACE
<b>Registration Number:</b>	1995539	GRACE
<b>Registration Number:</b>	1998235	GRACE
<b>Registration Number:</b>	1437819	GRACE
<b>Registration Number:</b>	2090421	GRACE
<b>Registration Number:</b>	2090422	GRACE
<b>Registration Number:</b>	3665698	GRACE CONSTRUCTION PRODUCTS
<b>Registration Number:</b>	3688147	GRACE CONSTRUCTION PRODUCTS
<b>Registration Number:</b>	2105453	GSR
<b>Registration Number:</b>	4299270	HYAMPP
<b>Registration Number:</b>	3159332	IMPACT
<b>Registration Number:</b>	0503253	LUDOX
<b>Registration Number:</b>	1370778	LYNX
<b>Registration Number:</b>	0972141	MAGNAPORE
<b>Registration Number:</b>	2897694	MIDAS
<b>Registration Number:</b>	2311497	OLEFINSMAX
<b>Registration Number:</b>	2620434	OLEFINSULTRA
<b>Registration Number:</b>	1640119	ORION
<b>Registration Number:</b>	1907797	PHONOSORB
<b>Registration Number:</b>	3196898	PINNACLE
<b>Registration Number:</b>	2674581	POLIEDGE
<b>Registration Number:</b>	3393146	POLYTRAK
<b>Registration Number:</b>	0373979	PROTEK-SORB
<b>Registration Number:</b>	0397230	PROTEK-SORB
<b>Registration Number:</b>	0568355	PROTEK-SORB "121"

Property Type	Number	Word Mark
Registration Number:	0813260	RANEY
Registration Number:	4162205	REBEL
Registration Number:	1701058	RFG
Registration Number:	1337474	SHAC
Registration Number:	1447031	SHIELDEX
Registration Number:	3142460	SMART CATALYST SYSTEM
Registration Number:	2627781	SURCA
Registration Number:	2282048	SYLOBEAD
Registration Number:	1607904	SYLOBLOC
Registration Number:	1438809	SYLODENT
Registration Number:	0905707	SYLOID
Registration Number:	2151424	SYLOJET
Registration Number:	1820354	SYLOPOL
Registration Number:	1305597	SYLOSIV
Registration Number:	1516101	TRISYL
Registration Number:	1712890	VYDAC
Registration Number:	2298167	XNOX
Registration Number:	941208	ADSORBOSIL-
Registration Number:	2225944	DMA
Registration Number:	4080412	ENRICHING LIVES, EVERYWHERE.
Registration Number:	0523113	RAREOX
Registration Number:	4186611	REACTOR
Registration Number:	4232802	REDUCER
Registration Number:	4162207	REMEDY
Registration Number:	2103463	SPECTRA
Registration Number:	0861852	XPAL
Registration Number:	1910938	GRACE DAVISON
Registration Number:	1299175	MINISPHERES
Registration Number:	1299165	MINISPHERES
Registration Number:	1928569	MTX
Registration Number:	0411442	TEL-TALE
Registration Number:	0786609	VITROX

**CORRESPONDENCE DATA**

Fax Number: 2024083141

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

Phone: 2024083141

Email: jean.paterson@cscglobal.com

**Correspondent Name:** CSC  
**Address Line 1:** 1090 Vermont Avenue, NW  
**Address Line 4:** Washington, D.C. 20005

**ATTORNEY DOCKET NUMBER:** 027803

**NAME OF SUBMITTER:** Jean Paterson

**SIGNATURE:** /jep/

**DATE SIGNED:** 09/23/2021

**Total Attachments: 30**

source=9-23-21 Grace - IP Release 1st-TM#page1.tif  
source=9-23-21 Grace - IP Release 1st-TM#page2.tif  
source=9-23-21 Grace - IP Release 1st-TM#page3.tif  
source=9-23-21 Grace - IP Release 1st-TM#page4.tif  
source=9-23-21 Grace - IP Release 1st-TM#page5.tif  
source=9-23-21 Grace - IP Release 1st-TM#page6.tif  
source=9-23-21 Grace - IP Release 1st-TM#page7.tif  
source=9-23-21 Grace - IP Release 1st-TM#page8.tif  
source=9-23-21 Grace - IP Release 1st-TM#page9.tif  
source=9-23-21 Grace - IP Release 1st-TM#page10.tif  
source=9-23-21 Grace - IP Release 1st-TM#page11.tif  
source=9-23-21 Grace - IP Release 1st-TM#page12.tif  
source=9-23-21 Grace - IP Release 1st-TM#page13.tif  
source=9-23-21 Grace - IP Release 1st-TM#page14.tif  
source=9-23-21 Grace - IP Release 1st-TM#page15.tif  
source=9-23-21 Grace - IP Release 1st-TM#page16.tif  
source=9-23-21 Grace - IP Release 1st-TM#page17.tif  
source=9-23-21 Grace - IP Release 1st-TM#page18.tif  
source=9-23-21 Grace - IP Release 1st-TM#page19.tif  
source=9-23-21 Grace - IP Release 1st-TM#page20.tif  
source=9-23-21 Grace - IP Release 1st-TM#page21.tif  
source=9-23-21 Grace - IP Release 1st-TM#page22.tif  
source=9-23-21 Grace - IP Release 1st-TM#page23.tif  
source=9-23-21 Grace - IP Release 1st-TM#page24.tif  
source=9-23-21 Grace - IP Release 1st-TM#page25.tif  
source=9-23-21 Grace - IP Release 1st-TM#page26.tif  
source=9-23-21 Grace - IP Release 1st-TM#page27.tif  
source=9-23-21 Grace - IP Release 1st-TM#page28.tif  
source=9-23-21 Grace - IP Release 1st-TM#page29.tif  
source=9-23-21 Grace - IP Release 1st-TM#page30.tif

**RELEASE OF SECURITY INTEREST  
IN INTELLECTUAL PROPERTY COLLATERAL**

THIS RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY COLLATERAL (this "Release"), dated as of September 22, 2021, is made by Goldman Sachs Bank USA, in its capacity as collateral agent (the "Collateral Agent"), in favor of W. R. Grace & Co.-Conn, a Connecticut corporation (the "Grantor"), as follows:

WITNESSETH:

WHEREAS, pursuant to that certain Security Agreement, dated as of April 3, 2018 (as amended, supplemented or otherwise modified from time to time, the "Security Agreement"), among the Grantor and the other parties party thereto in favor of the Collateral Agent, and those certain agreements described on Annex I attached hereto (the "IP Security Agreements" and each an "IP Security Agreement"), the Grantor granted a security interest in certain collateral in favor of the Collateral Agent, including the IP Collateral (as hereinafter defined); and

WHEREAS, the Collateral Agent now desires to terminate and release each IP Security Agreement and the entirety of its security interest in the IP Collateral described on Annex II attached hereto, and restore all right, title and interest in, to and under such IP Collateral to the Grantor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and upon the terms set forth in this Release, the Collateral Agent hereby agrees as follows:

1. Definitions. Capitalized terms not defined herein have the meanings set forth in the Security Agreement or the applicable IP Security Agreement, as applicable. The term "IP Collateral", as used herein, shall mean all of the Grantor's right, title and interest in, to and under any and all of the Trademarks and Patents listed on Annex II attached hereto.

2. Release of Security Interest. The Collateral Agent, without recourse, representation or warranty, hereby irrevocably (a) terminates, cancels, releases, relinquishes and discharges, in its entirety, for the benefit of the Grantor, and its successors and assigns, the IP Security Agreements and its security interest in and to the IP Collateral, and (b) reassigns, grants and conveys to Grantor any and all of the Collateral Agent's right, title and interest in, to and under the IP Collateral. Any and all right, title and interest of the Collateral Agent in, to and under the IP Collateral shall hereby be terminated, cancelled, released, relinquished and discharged. The Collateral Agent hereby authorizes the Grantor and its successors, assigns or other legal representatives to file this Release with the United States Patent and Trademark Office, at the sole expense of the Grantor, to evidence and effectuate the release and termination of the Collateral Agent's security interest in the IP Collateral.

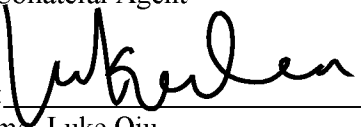
3. Delivery by Facsimile. Delivery of an executed signature page to this Release by facsimile or electronic (including .pdf file) transmission shall be as effective as delivery of a manually signed counterpart of this Release. Electronic signatures will have the same force and effect as manual signatures.

4. Governing Law. THIS RELEASE AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HERETO SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

[Signature page follows]

IN WITNESS WHEREOF, the undersigned has executed this Release by its duly authorized officer as of the date first above written.

**GOLDMAN SACHS BANK USA,**  
as Collateral Agent

By:   
Name: Luke Qiu  
Title: Authorized Signatory

**ANNEX I**

Trademark Security Agreement, dated as of April 3, 2018, made by W. R. Grace & Co.-Conn. in favor of Goldman Sachs Bank USA and recorded with the United States Patent and Trademark Office on April 3, 2018 at Reel/Frame 6306/0574.

Patent Security Agreement, dated as of April 3, 2018, made by W. R. Grace & Co.-Conn. in favor of Goldman Sachs Bank USA and recorded with the United States Patent and Trademark Office on April 3, 2018 at Reel/Frame 045828/0683.

**ANNEX II**

**Trademark Registrations**

**Reel/Frame 6306/0574**

<b>Trademark</b>	<b>Country Name</b>	<b>App Number</b>	<b>Filing Date</b>	<b>Reg Number</b>	<b>Registration Date</b>	<b>Trademark Status</b>	<b>Owner</b>
ACHIEVE	United States of America	86073986	9/25/2013	4756698	6/16/2015	Registered	W. R. Grace & Co.- Conn.
ADVANTA	United States of America	76/382292	3/14/2002	2736132	7/15/2003	Registered	W. R. Grace & Co.- Conn.
ALCYON	United States of America	77/949128	3/3/2010	4071230	12/13/2011	Registered	W. R. Grace & Co.- Conn.
ALLTECH	United States of America	73/379872	8/13/1982	1265450	1/31/1984	Registered	W. R. Grace & Co.- Conn.
ASTERA	United States of America	77/949114	3/3/2010	4071228	12/13/2011	Registered	W. R. Grace & Co.- Conn.
CATALAGRAM	United States of America	72208072	12/14/1964	0795991	9/14/1965	Registered	W. R. Grace & Co.- Conn.
CONSISTA	United States of America	85899822	4/10/2013	4539873	5/27/2014	Registered	W. R. Grace & Co.- Conn.
CP	United States of America	73/655556	4/16/1987	1490721	6/7/1988	Registered	W. R. Grace & Co.- Conn.
DARACLAR	United States of America	74/362997	3/1/1993	1834238	5/3/1994	Registered	W. R. Grace & Co.- Conn.



Trademark	Country Name	App Number	Filing Date	Reg Number	Registration Date	Trademark Status	Owner
DAVICAT	United States of America	75/294620	5/19/1997	2229578	3/2/1999	Registered	W. R. Grace & Co.- Conn.
DAVISIL	United States of America	75/731876	6/18/1999	2732453	7/1/2003	Registered	W. R. Grace & Co.- Conn.
DENOX	United States of America	75/580966	11/2/1998	2505595	11/6/2001	Registered	W. R. Grace & Co.- Conn.
DESOX	United States of America	75/576516	10/26/1998	2285510	10/12/1999	Registered	W. R. Grace & Co.- Conn.
D-PRISM	United States of America	76/248127	4/30/2001	2743553	7/29/2003	Registered	W. R. Grace & Co.- Conn.
E-CATALYSTS	United States of America	76/049485	5/16/2000	2637589	10/15/2002	Registered	W. R. Grace & Co.- Conn.
e-Catalysts and Logo	United States of America	76/220393	2/28/2001	2767419	9/23/2003	Registered	W. R. Grace & Co.- Conn.
e-Catalysts Logo (Design Only)	United States of America	76/220389	2/28/2001	2780075	11/4/2003	Registered	W. R. Grace & Co.- Conn.
E-CATALYSTS.COM	United States of America	76/049486	5/16/2000	2779897	11/4/2003	Registered	W. R. Grace & Co.- Conn.
ENCORE	United States of America	85058073	6/9/2010	4198999	8/28/2012	Registered	W. R. Grace & Co.- Conn.
ENRICH	United States of America	77465387	5/5/2008	4118831	3/27/2012	Registered	W. R. Grace &

Trademark	Country Name	App Number	Filing Date	Reg Number	Registration Date	Trademark Status	Owner
							Co.- Conn.
FLOWMOTION	United States of America	77/427521	3/20/2008	3719353	12/1/2009	Registered	W. R. Grace & Co.- Conn.
G-CON	United States of America	74/078127	7/9/1990	1688336	5/19/1992	Registered	W. R. Grace & Co.- Conn.
GENESIS	United States of America	77/381333	1/26/2008	3661638	7/28/2009	Registered	W. R. Grace & Co.- Conn.
GR	United States of America	73/473397	4/2/1984	1347037	7/9/1985	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/724700	9/5/1995	2203422	11/17/1998	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/724702	9/5/1995	2206302	12/1/1998	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/000640	11/16/1989	1607468	7/24/1990	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	72127007	8/31/1961	0733284	6/26/1962	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/283853	6/11/1992	1751126	2/9/1993	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/283852	6/11/1992	1758304	3/16/1993	Registered	W. R. Grace & Co.- Conn.

Trademark	Country Name	App Number	Filing Date	Reg Number	Registration Date	Trademark Status	Owner
GRACE	United States of America	74/284097	6/12/1992	1813264	12/28/1993	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/724704	9/5/1995	1995531	8/20/1996	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/725339	9/5/1995	1995539	8/20/1996	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/724701	9/5/1995	1998235	9/3/1996	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	73/583490	2/18/1986	1437819	4/28/1987	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/724703	9/5/1995	2090421	8/26/1997	Registered	W. R. Grace & Co.- Conn.
GRACE	United States of America	74/725329	9/5/1995	2090422	8/26/1997	Registered	W. R. Grace & Co.- Conn.
GRACE CONSTRUCTION PRODUCTS	United States of America	77/488633	6/2/2008	3665698	8/11/2009	Registered	W. R. Grace & Co.- Conn.
GRACE CONSTRUCTION PRODUCTS	United States of America	77/488630	6/2/2008	3688147	9/29/2009	Registered	W. R. Grace & Co.- Conn.
GSR	United States of America	75186795	10/24/1996	2105453	10/14/1997	Registered	W. R. Grace & Co.- Conn.
HYAMPP	United States of America	85563171	3/7/2012	4299270	3/5/2013	Registered	W. R. Grace &

Trademark	Country Name	App Number	Filing Date	Reg Number	Registration Date	Trademark Status	Owner
							Co.- Conn.
IMPACT	United States of America	76/487042	2/3/2003	3159332	10/17/2006	Registered	W. R. Grace & Co.- Conn.
LUDOX (stylized)	United States of America	71/543577	12/6/1947	0503253	10/19/1948	Registered	W. R. Grace & Co.- Conn.
LYNX	United States of America	73536722	5/9/1985	1370778	11/19/1985	Registered	W. R. Grace & Co.- Conn.
MAGNAPORE	United States of America	72/425484	5/25/1972	0972141	11/6/1973	Registered	W. R. Grace & Co.- Conn.
MIDAS	United States of America	76/388890	3/28/2002	2897694	10/26/2004	Registered	W. R. Grace & Co.- Conn.
OlefinsMax (stylized)	United States of America	75/598306	12/2/1998	2311497	1/25/2000	Registered	W. R. Grace & Co.- Conn.
OlefinsUltra	United States of America	76235943	4/5/2001	2620434	9/17/2002	Registered	W. R. Grace & Co.- Conn.
ORION	United States of America	74/066963	6/8/1990	1640119	4/9/1991	Registered	W. R. Grace & Co.- Conn.
PHONOSORB	United States of America	74/452651	10/14/1993	1907797	7/25/1995	Registered	W. R. Grace & Co.- Conn.
PINNACLE	United States of America	78/870830	4/27/2006	3196898	1/9/2007	Registered	W. R. Grace & Co.- Conn.

Trademark	Country Name	App Number	Filing Date	Reg Number	Registration Date	Trademark Status	Owner
PoliEdge	United States of America	76/355539	1/4/2002	2674581	1/14/2003	Registered	W. R. Grace & Co.- Conn.
POLYTRAK	United States of America	78/789408	1/11/2006	3393146	3/4/2008	Registered	W. R. Grace & Co.- Conn.
PROTEK-SORB	United States of America	71422466	8/10/1939	0373979	12/26/1939	Registered	W. R. Grace & Co.- Conn.
PROTEK-SORB	United States of America	71451965	3/28/1942	0397230	8/25/1942	Registered	W. R. Grace & Co.- Conn.
PROTEK-SORB 121 (Stylized/Design)	United States of America	71627049	3/26/1952	0568355	12/23/1952	Registered	W. R. Grace & Co.- Conn.
RANEY	United States of America	72/208361	12/17/1964	0813260	8/23/1966	Registered	W. R. Grace & Co.- Conn.
REBEL	United States of America	85291823	4/11/2011	4162205	6/19/2012	Registered	W. R. Grace & Co.- Conn.
RFG	United States of America	74/129843	1/9/1991	1701058	7/14/1992	Registered	W. R. Grace & Co.- Conn.
SHAC	United States of America	73505836	10/26/1984	1337474	5/28/1985	Registered	W. R. Grace & Co.- Conn.
SHIELDEX	United States of America	73/635743	12/16/1986	1447031	7/14/1987	Registered	W. R. Grace & Co.- Conn.
SmART Catalyst System (stylized)	United States of America	76/230594	3/26/2001	3142460	9/12/2006	Registered	W. R. Grace &

Trademark	Country Name	App Number	Filing Date	Reg Number	Registration Date	Trademark Status	Owner
							Co.- Conn.
SURCA	United States of America	76/247538	4/30/2001	2627781	10/1/2002	Registered	W. R. Grace & Co.- Conn.
SYLOBEAD	United States of America	75/359236	9/18/1997	2282048	9/28/1999	Registered	W. R. Grace & Co.- Conn.
SYLOBLOC	United States of America	73/835366	11/1/1989	1607904	7/31/1990	Registered	W. R. Grace & Co.- Conn.
SYLODENT	United States of America	73/617444	8/29/1986	1438809	5/12/1987	Registered	W. R. Grace & Co.- Conn.
SYLOID	United States of America	72324587	4/15/1969	0905707	1/12/1971	Registered	W. R. Grace & Co.- Conn.
SYLOJET	United States of America	75/174594	9/30/1996	2151424	4/14/1998	Registered	W. R. Grace & Co.- Conn.
SYLOPOL	United States of America	74/226134	11/29/1991	1820354	2/8/1994	Registered	W. R. Grace & Co.- Conn.
SYLOSIV	United States of America	73/421747	4/15/1983	1305597	11/20/1984	Registered	W. R. Grace & Co.- Conn.
TRISYL	United States of America	73/728738	5/13/1988	1516101	12/13/1988	Registered	W. R. Grace & Co.- Conn.
VYDAC	United States of America	74/216278	10/24/1991	1712890	9/8/1992	Registered	W. R. Grace & Co.- Conn.

Trademark	Country Name	App Number	Filing Date	Reg Number	Registration Date	Trademark Status	Owner
XNOX	United States of America	75-582192	11/2/1998	2298167	12/7/1999	Registered	W. R. Grace & Co.- Conn.
ADSORBOSIL	United States of America	72/386061	3/11/1971	941208	8/22/1972	Registered*	W. R. Grace & Co.- Conn.
DMA	United States of America	75/427617	2/2/1998	2225944	2/23/1999	Registered*	W. R. Grace & Co.- Conn.
ENRICHING LIVES, EVERYWHERE.	United States of America	77/686586	3/9/2009	4080412	1/3/2012	Registered*	W. R. Grace & Co.- Conn.
RAREOX	United States of America	71/566421	9/2/1948	0523113	3/28/1950	Registered*	W. R. Grace & Co.- Conn.
ReactoR	United States of America	85501183	12/21/2011	4186611	8/7/2012	Registered*	W. R. Grace & Co.- Conn.
ReduceR	United States of America	85501172	12/21/2011	4232802	10/30/2012	Registered*	W. R. Grace & Co.- Conn.
REMEDY	United States of America	85291836	4/11/2011	4162207	6/19/2012	Registered*	W. R. Grace & Co.- Conn.
SPECTRA	United States of America	75/186796	10/24/1996	2103463	10/7/1997	Registered*	W. R. Grace & Co.- Conn.
XPAL	United States of America	72/281074	9/25/1967	0861852	12/17/1968	Registered*	W. R. Grace & Co.- Conn.
GRACE DAVISON	United States of America	74472740	12/23/1993	1910938	8/15/1995	Registered*	W. R. Grace &

Trademark	Country Name	App Number	Filing Date	Reg Number	Registration Date	Trademark Status	Owner
							Co.- Conn.
MINISPHERES	United States of America	73430173	6/13/1983	1299175	10/9/1984	Registered*	W. R. Grace & Co.- Conn.
MINISPHERES	United States of America	73411716	1/31/1983	1299165	10/9/1984	Registered*	W. R. Grace & Co.- Conn.
MTX	United States of America	74436534	9/17/1993	1928569	10/17/1995	Registered*	W. R. Grace & Co.- Conn.
TEL-TALE	United States of America	71472889	8/3/1944	0411442	1/16/1945	Registered*	W. R. Grace & Co.- Conn.
VITROX	United States of America	72184118	1/6/1964	0786609	3/16/1965	Registered*	W. R. Grace & Co.- Conn.

\*Company does not intend to renew/maintain this registration.



Patent Registrations

Reel/Frame 045828/0683

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Self-Limiting Catalyst Composition And Propylene Polymerization Process	United States of America	12/850170	8/4/2010	7989383	8/2/2011	Granted	W. R. Grace & Co.-Conn. <sup>1</sup>
Self-Limiting Catalysts Composition And Propylene Polymerization Process	United States of America	12/352253	1/12/2009	7781363	8/24/2010	Granted	W. R. Grace & Co.-Conn. <sup>2</sup>
(Cycloalkyl)Methyl Silanes As External Donors For Polyolefin Catalysts	United States of America	09/930520	8/15/2001	6469112	10/22/2002	Granted	W. R. Grace & Co.-Conn.
Abrasive Particles For Chemical Mechanical Polishing	United States of America	10/564842	7/9/2004			Published	W. R. Grace & Co.-Conn.
Abrasive Particles For Chemical Mechanical Polishing	United States of America	13/335419	12/22/2011			Published	W. R. Grace & Co.-Conn.
Abrasive Particles For Chemical Mechanical Polishing	United States of America	14/067605	10/30/2013			Published	W. R. Grace & Co.-Conn.
Abrasive Silica Compositions And Dentifrice Compositions Prepared Therefrom	United States of America	09/056688	4/8/1998	6294155	9/25/2001	Granted*	W. R. Grace & Co.-Conn.
Adsorbent Biprocessing Clarification Agents And Methods Of Making And Using The Same	United States of America	15/579876	12/5/2017			Pending	W. R. Grace & Co.-Conn.
Alumina Particles And Methods Of Making The Same	United States of America	13/554727	9/12/2012	8871820	10/28/2014	Granted*	W. R. Grace & Co.-Conn.
Aluminum Sulfate Bound Catalysts	United States of America	14/269905	5/5/2014			Published	W. R. Grace & Co.-Conn.
Amide Ester Internal Electron Donor And Process	United States of America	13/580414	8/22/2012	8551903	10/8/2013	Granted	W. R. Grace & Co.-Conn.

<sup>1</sup> Record owner is Dow Global Technologies. Title update to be made with US PTO.

<sup>2</sup> Record owner is Dow Global Technologies. Title update to be made with US PTO.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Antifoulant For Impact Copolymers And Method	United States of America	12/643651	12/21/2009	8604118	12/10/2013	Granted	W. R. Grace & Co.-Conn.
Attrition Resistant Supports For Fischer-Tropsch Catalyst And Process For Making Same	United States of America	13/816054	2/8/2013	9156022	10/13/2015	Granted	W. R. Grace & Co.-Conn.
Catalyst Component Comprising Magnesium, Titanium, A Halogen And An Electron Donor, Its Preparation And Use	United States of America	09/762482	8/9/1999	6703455	3/9/2004	Granted	W. R. Grace & Co.-Conn.
Catalyst Component For Propylene Polymerization	United States of America	62/585137	11/13/2017			Pending Provisional	W. R. Grace & Co.-Conn.
Catalyst Composition And Polymerization Process Using Mixtures Of Selectivity Control Agents	United States of America	10/514608	11/16/2004	7141635	11/28/2006	Granted*	W. R. Grace & Co.-Conn.
Catalyst Composition With Alkoxyalkyl Ester Internal Electron Donor And Polymer From Same	United States of America	13/996322	6/20/2013	9434796	9/6/2016	Granted*	W. R. Grace & Co.-Conn.
Catalyst Composition With Halo-Malonate Internal Electron Donor And Polymer From Same	United States of America	12/974402	12/21/2010	8383540	2/26/2013	Granted	W. R. Grace & Co.-Conn.
Catalyst Composition With Halo-Malonate Internal Electron Donor And Polymer From Same	United States of America	13/760279	2/6/2013	8697827	4/15/2014	Granted	W. R. Grace & Co.-Conn.
Catalyst Composition With Mixed Selectivity Control Agent And Method	United States of America	12/390785	2/23/2009	7893003	2/22/2011	Granted	W. R. Grace & Co.-Conn.
Catalyst Composition With Mixed Selectivity Control Agent And Method	United States of America	13/025532	2/11/2011			Published	W. R. Grace & Co.-Conn.
Catalyst Composition With Mixed Selectivity Control Agent And Method	United States of America	13/059495	2/17/2011	-	-	Published	W. R. Grace & Co.-Conn.
Catalyst Composition With Monocarboxylic Acid Ester Internal Donor And Propylene Polymerization Process	United States of America	12/145061	6/24/2008	7687426	3/30/2010	Granted*	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Catalyst Compositions Comprising Metal Phosphate Bound Zeolite And Methods Of Using Same To Catalytically Crack Hydrocarbons	United States of America	12/502865	7/14/2009			Published	W. R. Grace & Co.-Conn.
Catalyst Flow	United States of America	12/119832	5/13/2008	7638585	12/29/2009	Granted	W. R. Grace & Co.-Conn.
Catalyst For Light Olefins And LPG In Fluidized Catalytic Cracking Units	United States of America	11/667149	5/4/2007	9365779	6/14/2016	Granted	W. R. Grace & Co.-Conn.
Catalyst On Silica Clad Alumina Support	United States of America	13/143003	6/30/2011	8673806	3/18/2014	Granted	W. R. Grace & Co.-Conn.
Catalyst On Silica Clad Alumina Support	United States of America	13/999217	1/30/2014	9365664	6/14/2016	Granted	W. R. Grace & Co.-Conn.
Catalyst Systems Olefin Polymerization Catalysts Components Comprising At Least An Internal Electron Donor Compound, And Methods Of Making And Using The Same	United States of America	14/588379	12/31/2014	9637575	5/2/2017	Granted	W. R. Grace & Co.-Conn.
Catalytic Process For Purification Of Fatty Acid Alkyl Esters Used In Fuels	United States of America	14/127583	12/19/2013	9528059	12/27/2016	Granted	W. R. Grace & Co.-Conn.
Cation Compatible Metal Oxides And Oral Care Compositions Containing The Metal Oxides	United States of America	14/971343	12/16/2015			Published	W. R. Grace & Co.-Conn.
Chromatography Media And Devices	United States of America	14/374777	7/25/2014			Published	W. R. Grace & Co.-Conn.
Coated Particles And Methods Of Making And Using The Same	United States of America	62/514431	6/2/2017			Pending Provisional	W. R. Grace & Co.-Conn.
Combined Internal Donor System For Ziegler-Natta Polyolefin Catalysts And Methods Of Making And Using Same	United States of America	14/457571	8/12/2014	9738736	8/22/2017	Granted	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Composite Inorganic Particles And Methods Of Making And Using The Same	United States of America	13/519748	6/28/2012	9234104	1/12/2016	Granted	W. R. Grace & Co.-Conn.
Composite Inorganic Particles And Methods Of Making And Using The Same	United States of America	14/957884	12/3/2015			Published	W. R. Grace & Co.-Conn.
Compositions And Processes For Reducing Nox Emissions During Fluid Catalytic Cracking	United States of America	11/918086	10/8/2007	7918991	4/5/2011	Granted	W. R. Grace & Co.-Conn.
Compositions And Processes For Reducing Nox Emissions During Fluid Catalytic Cracking	United States of America	10/824913	4/15/2004	7304011	12/4/2007	Granted*	W. R. Grace & Co.-Conn.
Compositions For Forming Films Having A Desired Degree Of Obscuration And Methods Of Making And Using The Same	United States of America	13/519763	6/28/2012			Published	W. R. Grace & Co.-Conn.
Compositions For Forming Films Having A Desired Degree Of Obscuration And Methods Of Making And Using The Same	United States of America	13/519736	6/28/2012			Published	W. R. Grace & Co.-Conn.
Coordination Catalyst Systems Employing Agglomerated Metal Oxide/Clay Support-Activator And Method Of Their Preparation	United States of America	09/431771	11/1/1999	6399535	6/4/2002	Granted*	W. R. Grace & Co.-Conn.
Coordination Catalyst Systems Employing Chromium Support-Agglomerate And Method Of Their Preparation	United States of America	10/120314	4/10/2002	6946420	9/20/2005	Granted	W. R. Grace & Co.-Conn.
Crystalline Form Of Nicotinamide Riboside	United States of America	15/328664	1/24/2017			Published	W. R. Grace & Co.-Conn.
Crystalline Form Of Nicotinamide Riboside	United States of America	15/791097	10/23/2017			Pending	W. R. Grace & Co.-Conn.
Crystalline Form Of Nicotinamide Riboside	United States of America	15/551975	8/18/2017			Published	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Emulsion Process For Improved Large Spherical Polypropylene Catalysts	United States of America	13/097210	4/29/2011	8685879	4/1/2014	Granted	W. R. Grace & Co.-Conn.
Enhanced Procatalyst Composition And Process	United States of America	12/651032	12/31/2009	8778826	7/15/2014	Granted	W. R. Grace & Co.-Conn.
Enhanced Procatalyst Composition And Process	United States of America	14/293468	6/2/2014	9464144	10/11/2016	Granted	W. R. Grace & Co.-Conn.
Ethylene Polymerization Catalysts	United States of America	12/786701	5/25/2010	9562119	2/7/2017	Granted	W. R. Grace & Co.-Conn.
Ferrierite Composition For Reducing Nox Emissions During Fluid Catalytic Cracking	United States of America	12/833336	7/9/2010	9931595	4/3/2018	Pending Not published	W. R. Grace & Co.-Conn.
Formulation Suitable For Ink Receptive Coatings	United States of America	10/305041	11/26/2002	6780920	8/24/2004	Granted	W. R. Grace & Co.-Conn.
Formulation Suitable For Ink Receptive Coatings	United States of America	10/887376	7/7/2004	7393571	7/1/2008	Granted	W. R. Grace & Co.-Conn.
Functionalized Particulate Support Material And Methods Of Making And Using The Same	United States of America	14/374795	7/25/2014			Published	W. R. Grace & Co.-Conn.
Functionalized Support Material And Methods Of Making And Using Functionalized Support Material	United States of America	15/308241	11/1/2016			Published	W. R. Grace & Co.-Conn.
Gasoline Sulfur Reduction Catalyst For Fluid Catalytic Cracking Process	United States of America	09/833601	4/13/2001	6635168	10/21/2003	Granted	W. R. Grace & Co.-Conn.
Gasoline Sulfur Reduction Catalyst For Fluid Catalytic Cracking Process	United States of America	10/801424	3/16/2004	8084383	12/27/2011	Granted	W. R. Grace & Co.-Conn.
Gasoline Sulfur Reduction Catalysts For Fluid Catalytic Cracking Process	United States of America	12/527232	8/14/2009	8901026	12/2/2014	Granted	W. R. Grace & Co.-Conn.
Gasoline Sulfur Reduction Catalytic For Fluid Catalytic Cracking Process	United States of America	11/884975	8/23/2007	7902106	3/8/2011	Granted	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Gasoline Sulfur Reduction Catalytic For Fluid Catalytic Cracking Process	United States of America	13/019062	2/1/2011	8221615	7/17/2012	Granted	W. R. Grace & Co.-Conn.
Gas-Phase Polymerization Process	United States of America	12/674475	3/11/2011	8324327	12/4/2012	Granted	W. R. Grace & Co.-Conn.
Gas-Phase Polymerization Process Under Multiple Flow Regimes	United States of America	12/970617	12/16/2010	8178633	5/15/2012	Granted	W. R. Grace & Co.-Conn.
Gas-Phase Polymerization Process With Wet Zone	United States of America	15/021561	3/11/2016	9556291	1/31/2017	Granted	W. R. Grace & Co.-Conn.
Halogenated Amide Ester And Internal Electron Donor With Same	United States of America	13/580412	8/22/2012	8466081	6/18/2013	Granted	W. R. Grace & Co.-Conn.
Heterogeneous Chromium Catalysts And Processes Of Polymerization Of Olefins Using Same	United States of America	10/120289	4/10/2002	6734131	5/11/2004	Granted	W. R. Grace & Co.-Conn.
High Activity And Good Hydrogen Response Ziegler-Natta Polyethylene Catalyst	United States of America	10/879572	6/28/2004	7153803	12/26/2006	Granted	W. R. Grace & Co.-Conn.
High Activity Catalyst Component For Olefin Polymerization And Method Of Using The Same	United States of America	12/943512	11/10/2010	8227370	7/24/2012	Granted*	W. R. Grace & Co.-Conn.
High Light Olefins Fcc Catalyst Compositions	United States of America	13/578384	8/10/2012	8845882	9/30/2014	Granted	W. R. Grace & Co.-Conn.
High Matrix Surface Area Catalytic Cracking Catalyst Stabiliized With Magnesium And Silica	United States of America	13/948687	7/23/2013			Published	W. R. Grace & Co.-Conn.
High Melt Flow Propylene Impact Copolymer And Method	United States of America	12/390897	2/23/2009	8067510	11/29/2011	Granted	W. R. Grace & Co.-Conn.
High Melt Flow Propylene Impact Copolymer And Method	United States of America	13/059490	2/17/2011	8779058	7/15/2014	Granted	W. R. Grace & Co.-Conn.
High Stiffness High Impact Propylene Impact Copolymers Field Of The Invention	United States of America	12/797717	6/10/2010	8178623	5/15/2012	Granted	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
High Stiffness High Impact Propylene Impact Copolymers Field Of The Invention	United States of America	13/695107	10/29/2012	9085684	7/21/2015	Granted	W. R. Grace & Co.-Conn.
High Zeolite Content And Attrition Resistant Catalysts, Methods For Preparing The Same And Catalyzed Processes Therewith	United States of America	10/151560	5/20/2002	6916757	7/12/2005	Granted	W. R. Grace & Co.-Conn.
Improved Zeolite Particles For Adsorption And/Or Desorption Of Gases And Liquids	United States of America	15/302413	10/6/2016			Published	W. R. Grace & Co.-Conn.
Internal And External Donor Compounds For Olefin Polymerization Catalysts	United States of America	12/655007	12/21/2009	<u>8211819</u>	7/3/2012	Granted*	W. R. Grace & Co.-Conn.
Internal And External Donor Compounds For Olefin Polymerization Catalysts II	United States of America	12/711353	2/24/2010	8569195	10/29/2013	Granted	W. R. Grace & Co.-Conn.
Internal And External Donor Compounds For Olefin Polymerization Catalysts	United States of America	12/714686	3/1/2010	8318626	11/27/2012	Granted	W. R. Grace & Co.-Conn.
Internal And External Donor Compounds For Olefin Polymerization Catalysts IV	United States of America	13/829284	3/14/2013	8933180	1/13/2015	Granted	W. R. Grace & Co.-Conn.
Internal Donor For Olefin Polymerization Catalysts	United States of America	12/119824	5/13/2008	8003559	8/23/2011	Granted	W. R. Grace & Co.-Conn.
Internal Donor For Olefin Polymerization Catalysts	United States of America	12/181907	7/29/2008	8003558	8/23/2011	Granted	W. R. Grace & Co.-Conn.
Internal Donor Structure For Olefin Polymerization Catalysts And Methods Of Making And Using Same	United States of America	13/307215	11/30/2011	8765626	7/1/2014	Granted	W. R. Grace & Co.-Conn.
Internal Donor Structure For Olefin Polymerization Catalysts And Methods Of Making And Using Same	United States of America	14/255050	11/30/2011	9217047	12/22/2015	Granted	W. R. Grace & Co.-Conn.
Internal Donor Structure For Olefin Polymerization Catalysts And Methods Of Making And Using Same	United States of America	14/944587	11/18/2015	9567410	2/14/2017	Granted	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Internal Donor Structure For Olefin Polymerization Catalysts And Methods Of Making And Using Same	United States of America	15/407829	1/17/2017	—	—	Pending	W. R. Grace & Co.-Conn.
Ion Chromatography Apparatus And Method For Removing Gas Prior To Sample Detection	United States of America	09/417231	10/13/1999	6444475	9/3/2002	Granted*	W. R. Grace & Co.-Conn.
Laboratory Process For Deactivation Of A Porous Solid	United States of America	15/754080	2/21/2018			Pending Not published	W. R. Grace & Co.-Conn.
Magnesium Stabilized Ultra Low Soda Cracking Catalysts	United States of America	14/416469	1/22/2015			Published	W. R. Grace & Co.-Conn.
Metallocene And Constrained Geometry Catalyst Systems Employing Agglomerated Metal Oxide/Clay Support-Activator And Method Of Their Preparation	United States of America	09/432008	11/1/1999	6559090	5/6/2003	Granted	W. R. Grace & Co.-Conn.
Method For Adsorbing Substances Using Silica Adsorbent On Magnetic Substrate	United States of America	10/234741	9/4/2002	6607667	8/19/2003	Granted	W. R. Grace & Co.-Conn.
Method For Catalytic Deoxygenation Of Natural Oils And Greases	United States of America	15/316743	12/6/2016			Published	W. R. Grace & Co.-Conn.
Method For Controlling Nox Emissions In The FCCU	United States of America	<u>11/886114</u>	9/11/2007	7780935	8/24/2010	Granted*	W. R. Grace & Co.-Conn.
Method For Polymerizing Polypropylene	United States of America	12/941440	11/8/2010			Published	W. R. Grace & Co.-Conn.
Method For Synthesizing Silicoaluminophosphate 34 Molecular Sieves	United States of America	15/031609	4/22/2016	9889440	2/13/2018	Granted	W. R. Grace & Co.-Conn.
Method For Synthesizing Silicoaluminophosphate-34 Molecular Sieves Using Monoisopropanolamine	United States of America	15/504715	2/17/2017			Published	W. R. Grace & Co.-Conn.
Method Of Making And Using Catalyst Precursor	United States of America	09/172543	10/14/1998	5962361	10/5/1999	Granted	W. R. Grace & Co.-Conn.



Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Method Of Reducing Formation Of Precipitates In Solvent Recovery System	United States of America	09/613954	7/11/2000	6358372	3/19/2002	Granted	W. R. Grace & Co.-Conn.
Mixed Catalyst Compositions For The Production Of Polyolefins	United States of America	10/508852	9/24/2004	7166553	1/23/2007	Granted*	W. R. Grace & Co.-Conn.
Mixed Internal Donor Structures For 1-Olefin Polymerization Catalysts	United States of America	13/840182	3/15/2013	9284392	3/15/2016	Granted*	W. R. Grace & Co.-Conn.
Molar Ratio Modifications To Larger Polyolefin Catalysts	United States of America	11/967815	12/31/2007	8344079	1/1/2013	Granted *	W. R. Grace & Co.-Conn.
Morphology Controlled Olefin Polymerization Process	United States of America	10/544278	8/3/2005	7365039	4/29/2008	Granted	W. R. Grace & Co.-Conn.
Non-Ionic Foam Composition For Treating Asbestos-Containing Materials And Methods Of Using Same	United States of America	09/740951	12/21/2000	6589156	7/8/2003	Granted	W. R. Grace & Co.-Conn.
Novel Antacids For Polypropylene	United States of America	62/625643	2/2/2018			Pending Provisional	W. R. Grace & Co.-Conn.
Nox Reduction Compositions For Use In FCC Processes	United States of America	10/277026	10/21/2002	7307038	12/11/2007	Granted*	W. R. Grace & Co.-Conn.
Nox Reduction Compositions For Use In FCC Processes	United States of America	10/274811	10/21/2002	6660683	12/9/2003	Granted	W. R. Grace & Co.-Conn.
Nox Reduction Compositions For Use In FCC Processes	United States of America	10/837846	5/3/2004	7030055	4/18/2006	Granted*	W. R. Grace & Co.-Conn.
NOX Reduction Compositions For Use In Partial Burn FCC Processes	United States of America	11/918085	10/8/2007	7976697	7/12/2011	Granted*	W. R. Grace & Co.-Conn.
Olefin Polymerization Catalyst	United States of America	62/551378	8/29/2017			Pending Provisional	W. R. Grace & Co.-Conn.
Olefin Polymerization Catalyst Compositions And Method Of Preparation	United States of America	10/903309	7/30/2004	7601664	10/13/2009	Granted	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Polyolefin Polymers With Increased Melt Strength	United States of America	62/578162	10/27/2017			Pending Provisional	W. R. Grace & Co.-Conn.
Polypropylene Impact Copolymer And Method	United States of America	12/650625	12/31/2009	<u>7935766</u>	5/3/2011	Granted	W. R. Grace & Co.-Conn.
Porous Silica Gel As A Carrier For Liquid Technologies	United States of America	14/764363	7/29/2015			Published	W. R. Grace & Co.-Conn.
Procatalyst Composition Including Silyl Ester Internal Donor And Method	United States of America	12/622889	11/20/2009	8088872	1/3/2012	Granted	W. R. Grace & Co.-Conn.
Procatalyst Composition With Adamantane And Method	United States of America	12/761854	4/16/2010	8288304	10/16/2012	Granted	W. R. Grace & Co.-Conn.
Procatalyst Composition With Alkoxyalkyl 2-Propenoate Internal Electron Donor And Polymer From Same	United States of America	13/996300	10/16/2013	<u>9382342</u>	7/5/2016	Granted*	W. R. Grace & Co.-Conn.
Procatalyst Composition With Alkoxypropyl Ester Internal Electron Donor And Polymer From Same	United States of America	13/996340	6/20/2013	<u>9382343</u>	7/5/2016	Granted*	W. R. Grace & Co.-Conn.
Procatalyst Composition With Multiple Internal Donor Having Silyl Ester And Method	United States of America	12/623514	11/23/2009	8222357	7/17/2012	Granted	W. R. Grace & Co.-Conn.
Procatalyst Composition With Substituted 1,2-Phenylene Aromatic Diester Internal Donor And Method	United States of America	12/650834	12/31/2009	8288585	10/16/2012	Granted	W. R. Grace & Co.-Conn.
Procatalyst Composition With Substituted 1,2-Phenylene Aromatic Diester Internal Donor And Method	United States of America	13/647546	10/9/2012	8536372	9/17/2013	Granted	W. R. Grace & Co.-Conn.
Procatalyst Composition With Substituted 1,2-Phenylene Aromatic Diester Internal Donor And Method	United States of America	14/022425	9/10/2013	9045570	6/2/2015	Granted	W. R. Grace & Co.-Conn.
Procatalyst Composition With Substituted 1,2-Phenylene Aromatic Diester Internal Donor And Method	United States of America	14/724300	5/28/2015	9434799	9/6/2016	Granted	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Procatalyst Composition With Substituted 1,2-Phenylene Aromatic Diester Internal Donor And Method	United States of America	15/174202	6/6/2016	9534063	1/3/2017	Granted	W. R. Grace & Co.-Conn.
Procatalyst Composition With Substituted Amide Ester Internal Electron Donor	United States of America	13/580409	8/22/2012	8604144	12/10/2013	Granted	W. R. Grace & Co.-Conn.
Procatalyst Composition With Substituted Amide Ester Internal Electron Donor	United States of America	14/075079	11/8/2013	9441058	9/13/2016	Granted	W. R. Grace & Co.-Conn.
Procatalyst Particles And Polymerization Process For Impact Copolymers	United States of America	15/036365	5/12/2016			Pending	W. R. Grace & Co.-Conn.
Process And Catalyst For The Production Of Pyridine And Alkyl Derivatives Thereof	United States of America	14/437997	4/23/2015	9598366	3/21/2017	Granted	W. R. Grace & Co.-Conn.
Process And Catalyst For The Production Of Pyridine And Alkyl Derivatives Thereof	United States of America	15/435714	2/17/2017			Published	W. R. Grace & Co.-Conn.
Process For Deactivation Of Polyolefin Compositions Utilizing Carbon Dioxide As A Deactivation Agent	United States of America	09/220180	12/23/1998	6022946	2/8/2000	Granted	W. R. Grace & Co.-Conn.
Process For Gas-Phase Polymerization Having High Bed Bulk Density	United States of America	13/172969	6/30/2011			Published	W. R. Grace & Co.-Conn.
Process For Making 1, 2-Propane Diol From Hydrogenation Of Glycerol	United States of America	13/203264	8/25/2011	8735635	5/27/2014	Granted	W. R. Grace & Co.-Conn.
Process For Making Improved Catalysts From Clay-Derived Zeolites	United States of America	13/578560	8/10/2012	9416322	8/16/2016	Granted	W. R. Grace & Co.-Conn.
Process For Making Improved Zeolite Catalysts From Peptized Aluminas	United States of America	13/578511	8/10/2012	9617480	4/11/2017	Granted	W. R. Grace & Co.-Conn.
Process For Preparing Spherical Polymerization Catalyst Components For Use In Olefin Polymerizations	United States of America	14/512130	10/10/2014	9714302	7/25/2017	Granted	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Process For Preparing Supported Transition Metal Catalyst Systems And Catalyst Systems Prepared Thereby	United States of America	10/120331	4/10/2002	6943224	9/13/2005	Granted	W. R. Grace & Co.-Conn.
Process For Producing Procatalyst Composition With Alkoxyalkyl Ester Internal Electron Donor And Product	United States of America	13/854453	4/1/2013	<u>9315592</u>	4/19/2016	Granted*	W. R. Grace & Co.-Conn.
Process For Producing Propylene Copolymers With Low Voc Content	United States of America	62/484548	4/12/2017			Pending Provisional	W. R. Grace & Co.-Conn.
Process For Production Of High Melt Flow Propylene-Based Polymer And Product From Same	United States of America	13/993503	6/12/2013			Published	W. R. Grace & Co.-Conn.
Process For The Selective Production Of Propanols By Hydrogenation Of Glycerol	United States of America	14/774792	9/11/2015	9586879	3/7/2017	Granted	W. R. Grace & Co.-Conn.
Process Of Making Modified Metallocene Catalyst, Catalyst Produced And Use Thereof	United States of America	13/979541	7/12/2013	9045569	6/2/2015	Granted	W. R. Grace & Co.-Conn.
Process Of Polymerization Catalyst Production With Controlled Catalyst Properties And Use Of Same In Olefin Polymerizations	United States of America	14/075691	11/8/2013	9593182	3/14/2017	Granted	W. R. Grace & Co.-Conn.
Process Of Polymerization Catalyst Production With Controlled Catalyst Properties And Use Of Same In Olefin Polymerizations	United States of America	15/385503	12/20/2016	—	—	Pending	W. R. Grace & Co.-Conn.
Process Of Production Of Large And Spherical Polymerization Catalyst And Use Of Same In Olefin Polymerizations	United States of America	14/304209	6/13/2014	9403924	8/2/2016	Granted	W. R. Grace & Co.-Conn.
Process To Produce Modified Clay, Modified Clay Produced And Use Thereof	United States of America	15/572675	11/8/2017			Pending Not published	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Process To Produce Modified Clay, Supported Metallocene Polymerization Catalyst, Catalyst Produced And Use Thereof	United States of America	15/572658	11/8/2017			Pending Not published	W. R. Grace & Co.-Conn.
Processes And Systems For Transferring Particulate Substances Form Containers	United States of America	11/407793	4/19/2006	8016000	9/13/2011	Granted	W. R. Grace & Co.-Conn.
Processes And Systems For Transferring Particulate Substances From Containers	United States of America	13/192045	7/27/2011	8307859	11/13/2012	Granted	W. R. Grace & Co.-Conn.
Processes And Systems For Transferring Particulate Substances From Containers	United States of America	13/192057	7/27/2011	8307861	11/13/2012	Granted	W. R. Grace & Co.-Conn.
Producing High Comonomer Content Propylene-Based Polymers	United States of America	15/035985	5/11/2016	—	—	Pending	W. R. Grace & Co.-Conn.
Producing Propylene Impact Copolymers And Products	United States of America	15/035980	5/11/2016	9663647	5/30/2017	Granted	W. R. Grace & Co.-Conn.
Production Of Substituted Phenylene Aromatic Diesters And Compositions	United States of America	12/651268	12/31/2009	8604235	12/10/2013	Granted	W. R. Grace & Co.-Conn.
Production Of Substituted Phenylene Dibenzate Internal Electron Donor And Procatalyst With Same	United States of America	13/220910	8/30/2011	<u>9133286</u>	9/15/2015	Granted*	W. R. Grace & Co.-Conn.
Promoted Porous Catalyst	United States of America	09/899900	7/6/2001	6395403	5/28/2002	Granted	W. R. Grace & Co.-Conn.
Promoted Porous Catalyst	United States of America	09/899902	7/6/2001	6429337	8/6/2002	Granted	W. R. Grace & Co.-Conn.
Propylene Ethylene Random Copolymer Suitable For Pipe	United States of America	15/030786	4/20/2016			Published	W. R. Grace & Co.-Conn.
Propylene/Butene Interpolymer Production System And Method	United States of America	14/774487	9/10/2015	9624323	4/18/2017	Granted	W. R. Grace & Co.-Conn.
Propylene/Ethylene Copolymer Film For Heat Seal	United States of America	14/122736	11/27/2013			Published	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Propylene-Based Polymer With Reduced High-Molecular Weight Portion	United States of America	15/035649	5/10/2016	9908952	3/6/2018	Granted	W. R. Grace & Co.-Conn.
Random Propylene Copolymer Compositions, Articles And Process	United States of America	12/650633	12/31/2009	8106138	1/31/2012	Granted	W. R. Grace & Co.-Conn.
Reduction Of Gas Phase Reduced Nitrogen Species In Partial Burn FCC Processes	United States of America	11/238745	9/29/2005	<u>7906015</u>	3/15/2011	Granted*	W. R. Grace & Co.-Conn.
Reduction Of Gas Phase Reduced Nitrogen Species In Partial Burn FCC Processes	United States of America	12/387662	5/6/2009	<u>7909986</u>	3/22/2011	Granted*	W. R. Grace & Co.-Conn.
Remote Pressure Sensing For Polymer Reactor Control	United States of America	62/624321	1/31/2018			Pending Provisional	W. R. Grace & Co.-Conn.
Self Limiting Catalyst Composition And Propylene Polymerization Process	United States of America	10/568930	2/21/2006	<u>7491670</u>	2/17/2009	Granted	W. R. Grace & Co.-Conn.
Self Limiting Catalyst Composition And Propylene Polymerization Process	United States of America	12/352173	1/12/2009	<u>7678868</u>	3/16/2010	Granted	W. R. Grace & Co.-Conn.
Self-Limiting Catalyst Composition With No Silane	United States of America	12/674485	2/22/2010	9796796	10/24/2017	Granted	W. R. Grace & Co.-Conn.
Self-Limiting Catalyst Composition With Non-Phthalate Internal Donor	United States of America	12/809663	6/21/2010	—	—	Published*	W. R. Grace & Co.-Conn.
Self-Limiting Catalyst System With Controlled Aluminum To Sca Ratio And Method	United States of America	12/674468	2/22/2010			Published	W. R. Grace & Co.-Conn.
Silica Adsorbent On Magnetic Substrate	United States of America	10/615998	7/9/2003	6924033	8/2/2005	Granted	W. R. Grace & Co.-Conn.
Silica Sol Bound Catalytic Cracking Catalyst Stabilized With Magnesium	United States of America	13/948641	7/23/2013			Published	W. R. Grace & Co.-Conn.
Silica-Based Matting Agents And Methods Of Making And Using The Same	United States of America	62/540920	8/3/2017			Pending Provisional	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Solid Catalyst Components For Olefin Polymerization And Methods Of Making And Using The Same	United States of America	14/451990	8/5/2014	9663595	5/30/2017	Granted	W. R. Grace & Co.-Conn.
Solid Compositions For Selective Adsorption From Complex Mixtures	United States of America	11/228100	9/16/2005	<u>7166213</u>	1/23/2007	Granted*	W. R. Grace & Co.-Conn.
Sulfur Tolerant Alumina Catalyst Support	United States of America	12/311575	4/3/2009	8076263	12/13/2011	Granted	W. R. Grace & Co.-Conn.
Sulfur Tolerant Alumina Catalyst Support	United States of America	12/311574	4/3/2009	8158257	4/17/2012	Granted	W. R. Grace & Co.-Conn.
Sulfur Tolerant Alumina Catalyst Support	United States of America	13/498609	3/28/2012	9409149	8/9/2016	Granted	W. R. Grace & Co.-Conn.
Supported Catalyst For Olefin Polymerization	United States of America	11/185126	7/20/2005	7326757	2/5/2008	Granted	W. R. Grace & Co.-Conn.
Supported Catalyst For Olefin Polymerization	United States of America	11/753471	7/20/2005	7700513	4/20/2010	Granted	W. R. Grace & Co.-Conn.
Supported Catalyst Systems	United States of America	11/983880	11/13/2007	<u>7780946</u>	8/24/2010	Granted*	W. R. Grace & Co.-Conn.
System And Process For Injecting Catalyst And/Or Additives Into A Fluidized Catalytic Cracking Unit	United States of America	10/806563	3/23/2004	7846399	12/7/2010	Granted	W. R. Grace & Co.-Conn.
System And Process For Injecting Catalyst And/Or Additives Into A Fluidized Catalytic Cracking Unit	United States of America	10/593499	3/23/2005	8012422	9/6/2011	Granted	W. R. Grace & Co.-Conn.
System And Process For Injecting Catalyst And/Or Additives Into A Fluidized Catalytic Cracking Unit	United States of America	12/948167	11/17/2010	9315738	4/19/2016	Granted	W. R. Grace & Co.-Conn.
System And Process For Injecting Catalyst And/Or Additives Into A Fluidized Catalytic Cracking Unit	United States of America	13/049440	3/16/2011	<u>8926907</u>	1/6/2015	Granted*	W. R. Grace & Co.-Conn.

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
System And Process For Injecting Catalyst And/Or Additives Into A Fluidized Catalytic Cracking Unit	United States of America	13/193012	7/28/2011	8967919	3/3/2015	Granted	W. R. Grace & Co.-Conn.
System And Process For Injecting Catalyst And/Or Additives Into A Fluidized Catalytic Cracking Unit	United States of America	13/193052	7/28/2011	9504975	11/29/2016	Granted	W. R. Grace & Co.-Conn.
Systems For Injecting Catalysts And/Or Additives Into A Fluidized Catalytic Cracking Unit And Methods Of Making And Using The Same	United States of America	14/352361	4/17/2014	9637325	5/2/2017	Granted	W. R. Grace & Co.-Conn.
Thermoformed Article With High Stiffness And Good Optics	United States of America	12/819489	6/21/2010	8378045	2/19/2013	Granted	W. R. Grace & Co.-Conn.
Three And Four Atom Bridged Dicarboxylate Compounds As Internal Donors In Catalysts For Polypropylene Manufacture	United States of America	12/956091	11/30/2010	8633126	1/21/2014	Granted	W. R. Grace & Co.-Conn.
Use Of Dicarboxylate Compounds As Internal Electron Donors In Catalysts For Polypropylene Manufacture	United States of America	12/956050	11/30/2010	8263520	9/11/2012	Granted	W. R. Grace & Co.-Conn.
Gasoline sulfur reduction in fluid catalytic cracking	United States of America	2001901939	7/10/2001	7153413	12/26/2006	Granted	W. R. Grace & Co.-Conn.
Ceramic Aggregate/Cement Ballistic Armor	United States of America	857001	3/26/1992			Pending	W. R. Grace & Co.-Conn. (NY)
Chromium Support-Agglomerate-Transition Metal Polymerization Catalysts And Processes Utilizing Same	United States of America	10/120310	4/10/2002	6958375	10/25/2005	Granted	W. R. Grace & Co.-Conn. (NY)
Dispersions Of Fine Porous Inorganic Oxide Particles And Processes For Preparing Same	United States of America	09/343842	6/30/1999	6380265	4/30/2002	Granted	W. R. Grace & Co.-Conn. (NY)
Formulation Suitable For Ink Receptive Coatings	United States of America	09/112540	7/9/1998	6841609	1/11/2005	Granted	W. R. Grace & Co.-Conn. (NY)



Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Inorganic Hydrogel Flattening Agents	United States of America	08/485304	6/7/1995	6696375	2/24/2004	Granted	W. R. Grace & Co.-Conn. (NY)
Integrated additive Composition, Process For Its Preparation And Its Use	United States of America	09/622102	2/3/1999	6294505	9/25/2001	Granted	W. R. Grace & Co.-Conn. (NY)
Leak-Proof Resilient Hermetic Package	United States of America	53931	4/26/1993			Pending	W. R. Grace & Co.-Conn. (NY)
Method Of Making Frangible Spray Dried Agglomerated Supports And Olefin Polymerization Catalysts Supported Thereon	United States of America	09/219077	12/22/1998	6313061	11/6/2001	Granted	W. R. Grace & Co.-Conn. (NY)
Promoted Porous Catalyst	United States of America	09/306398	5/6/1999	6309758	10/30/2001	Granted	W. R. Grace & Co.-Conn. (NY)
Silica Adsorbent On Superparamagnetic Substrate	United States of America	09/723446	11/28/2000	6447911	9/10/2002	Granted	W. R. Grace & Co.-Conn. (NY)
Slurries Of Abrasive Inorganic Oxide Particles And Methods For Adjusting The Abrasiveness Of The Particles	United States of America	09/703403	11/1/2000	6365522	4/2/2002	Granted	W. R. Grace & Co.-Conn. (NY)
Supported Bidentate And Tridentate Catalyst Compositions And Olefin Polymerization Using Same	United States of America	09/166545	10/5/1998	6184171	2/6/2001	Granted	W. R. Grace & Co.-Conn. (NY)
Supported Catalyst Composition For Polymerization Of Olefins	United States of America	08/476186	6/7/1995	6489410	12/3/2002	Granted	W. R. Grace & Co.-Conn. (NY)
Boron-Based Electron Donors For Ziegler-Natta Catalyst Systems	United States of America	62/545272	8/14/2017			Pending Provisional	W. R. Grace & Co.-Conn./Braskem
Non-Phthalate Donor For Polyolefin Polymerization Catalysts And Uses Thereof	United States of America	15/751121	2/7/2018			Pending Not published	W. R. Grace & Co.-Conn./Braskem

Title Of Invention	Country	App. Number	Filing Date	Patent Number	Issued Date	Status	Owner
Compositions Containing A Biologically Active Material And A Non-Ordered Inorganic Oxide Material And Methods Of Making And Using The Same	United States of America	14/442195	5/12/2015			Published	W. R. Grace & Co.-Conn./Formac Pharmaceuticals N.V.
Gasoline Sulfur Reduction In Fluid Catalytic Cracking	United States of America	09/649627	8/28/2000	6482315	11/19/2002	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Gasoline Sulfur Reduction In Fluid Catalytic Cracking	United States of America	09/144607	8/31/1998	6852214	2/8/2005	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Gasoline Sulfur Reduction In Fluid Catalytic Cracking	United States of America	11/013708	12/16/2004	7476638	1/13/2009	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Gasoline Sulfur Reduction In Fluid Catalytic Cracking	United States of America	09/221539	12/28/1998	6846403	1/25/2005	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Gasoline Sulfur Reduction In Fluid Catalytic Cracking	United States of America	11/013481	12/16/2004	7452839	11/18/2008	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Gasoline Sulfur Reduction In Fluid Catalytic Cracking	United States of America	10/308737	12/3/2002	6923903	8/2/2005	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Gasoline Sulfur Reduction In Fluid Catalytic Cracking	United States of America	11/118539	4/29/2005	7507686	3/24/2009	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Gasoline Sulfur Reduction In Fluid Catalytic Cracking	United States of America	11/118541	4/29/2005	7803267	9/28/2010	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Gasoline Sulfur Reduction In Fluid Catalyst Cracking	United States of America	09/468452	12/21/1999	6974787	12/13/2005	Granted	W. R. Grace & Co.-Conn./Mobil Oil Corporation
Affinity Chromatography Media And Chromatography Devices	United States of America	15/111672	7/14/2016			Published	W. R. Grace & Co.-Conn./Repligen Corporation