

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3880223

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DEEPAK AKOLEKAR	11/15/2012
PHANI KIRAN BOLLAPRAGADA	11/14/2012
SANTOSH KHOKARALE	11/14/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DOW CHEMICAL INTERNATIONAL PVT. LTD.
<b>Street Address:</b>	1ST FLOOR, BLOCK B, 02, GODREJ IT PARK
<b>Internal Address:</b>	GODREJ BUSINESS DISTRICT, PIROJSHANAGAR, L.B.S. MARG
<b>City:</b>	VIKHROLI-MUMBAI
<b>State/Country:</b>	INDIA
<b>Postal Code:</b>	400 079
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14431038
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(937)449-6405
<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>	9374496400
<b>Email:</b>	katherine.ghearing@dinsmore.com
<b>Correspondent Name:</b>	DINSMORE & SHOHL LLP
<b>Address Line 1:</b>	FIFTH THIRD CENTER, ONE S. MAIN ST.
<b>Address Line 2:</b>	SUITE 1300
<b>Address Line 4:</b>	DAYTON, OHIO 45402
<b>ATTORNEY DOCKET NUMBER:</b>	DOW 72472 PA / 40224-442
<b>NAME OF SUBMITTER:</b>	KATHERINE GHEARING
<b>SIGNATURE:</b>	/Katherine Ghearing/
<b>DATE SIGNED:</b>	05/19/2016
<b>Total Attachments: 5</b>	
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This Assignment 110 is in the English language and has the same meaning in other languages with the same 110 number and R Date

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FORM 110 (R 5-07)

## INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **COMPOSITIONS AND PROCESSES FOR MESOPOROUS SILICAS HAVING LARGE PORES WITH NARROW DIAMETER DISTRIBUTIONS**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

**Dow Chemical International PVT. LTD.**  
1st Floor, Block B, 02, Godrej IT Park  
Godrej Business District  
Pirojshanagar, L.B.S Marg  
Vikhroli-Mumbai 400 079  
INDIA

a corporation organized and existing under the laws of **India** (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61/708,229	October 1, 2012	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: _____ this _____ day of _____, 20____ Effective as of October 1, 2012
Signature: _____ Full Name: Deepak Akolekar Residence: Sri Sri Guru Gauranga Niwas 56 Girish Society Behind Old Warje Jakat naka Warje, Maharashtra Pune-411052; INDIA  Country: India Citizenship: Australia P.O. Address: Same as Residence Employed By: Dow Chemical International PVT. LTD. Of Country: India

At: <u>Pune - 411008, Maharashtra, India</u> this <u>14</u> day of <u>November</u> , 20 <u>12</u> Effective as of October 1, 2012
Signature: <u>Phani Kiran Bollapragada</u> Full Name: Phani Kiran Bollapragada Residence: 22, Buena Monte, NCL Society Panchvati Pashan Road, Pune-411008 INDIA  Country: India Citizenship: India P.O. Address: Same as Residence Employed By: Dow Chemical International PVT. LTD. Of Country: India

At: _____ this _____ day of _____, 20____ Effective as of October 1, 2012
Signature: _____ Full Name: Santosh Khokarale Residence: Denmark Technical University Room 137, Building 206 Kgs. Lyngby, DK-2800 DENMARK  Country: Denmark Citizenship: India P.O. Address: Same as Residence Employed By: Dow Chemical International PVT. LTD. Of Country: India

At: _____ this _____ day of _____, 20____
Signature: _____ Full Name: _____ Residence: _____  Country: _____ Citizenship: _____ P.O. Address: _____ Employed By: _____ Of Country: _____

( ) Additional names and signatures are attached.

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date.

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FORM 110 (R 5/97)

## INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (with Priority Rights)

I/we verify believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **COMPOSITIONS AND PROCESSES FOR MESOPOROUS SILICAS HAVING LARGE PORES WITH NARROW DIAMETER DISTRIBUTIONS**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

**Dow Chemical International PVT. LTD.**  
1st Floor, Block B, 02, Godrej IT Park  
Godrej Business District  
Piroshanagar, L.B.S Marg  
Vikhroli-Mumbai 400 079  
INDIA

a corporation organized and existing under the laws of India (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61/708,229	October 1, 2012	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

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Signature: _____ Full Name: Deepak Akolekar Residence: Sri Sri Guru Gauranga Niwas 56 Girish Society Behind Old Warje Jakat naka Warje, Maharashtra Pune-411052; INDIA Country: India Citizenship: Australia P.O. Address: Same as Residence Employed By: Dow Chemical International PVT. LTD. Of Country: India

At: _____ this _____ day of _____, 20____ Effective as of October 1, 2012
Signature: _____ Full Name: Phani Kiran Bollapragada Residence: 22, Buena Monte, NCL Society Panchvati Pashan Road, Pune-411008 INDIA Country: India Citizenship: India P.O. Address: Same as Residence Employed By: Dow Chemical International PVT. LTD. Of Country: India

At: <u>DTU, LYNGBY, DK-2800, DENMARK</u> this <u>14</u> day of <u>NOVEMBER</u> , 20 <u>12</u> Effective as of October 1, 2012
Signature: <u>[Signature]</u> Full Name: Santosh Khokarale Residence: Denmark Technical University Room 137, Building 206 Kgs. Lyngby, DK-2800 DENMARK Country: Denmark Citizenship: India P.O. Address: Same as Residence Employed By: Dow Chemical International PVT. LTD. Of Country: India

At: _____ this _____ day of _____, 20____
Signature: _____ Full Name: _____ Residence: _____  Country: _____ Citizenship: _____ P.O. Address: _____ Employed By: _____ Of Country: _____

( ) Additional names and signatures are attached.



**SUBSCRIBING WITNESS**  
**AFFIDAVIT OF EXECUTION**

(CORPORATE OFFICER)

Print or Type  
Name and Address  
of Subscribing Witness

I, **Ramolla Karnani**

Whose full post office address is:

**DOW CHEMICAL INTERNATIONAL PVT. LTD.**  
**1<sup>st</sup> Floor, Block B, 02,**  
**Godrej IT Park, Godrej Business District,**  
**Pirojshanagar, L.B.S Marg,**  
**Vikhroli (W), Mumbai – 400 079**  
**India**

Print or Type  
Name of Corporation  
Officer and Title

Make Oath and say that I was personally present and did see:

Vipul S. Shah  
President

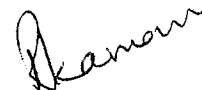
of

**DOW CHEMICAL INTERNATIONAL PVT. LTD.**  
**1st Floor, Block B, 02, Godrej IT Park**  
**Godrej Business District**  
**Pirojshanagar, L.B.S Marg**  
**Vikhroli-Mumbai 400 079**  
**India**

known or identified to me to be the individual(s) described and who executed the foregoing document and that said individual has full authority to sign the document on behalf of the said limited liability company and that the purposes for which said document is granted are within the scope of the objectives or activities of said limited liability company and acknowledge the same as a free act and deed for uses and purposes therein expressed.

Signed at: Mumbai, India

On this 21<sup>st</sup> day of November, 2012



Subscribing Witness