#### 503833575 05/19/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3880223

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
DEEPAK AKOLEKAR	11/15/2012
PHANI KIRAN BOLLAPRAGADA	11/14/2012
SANTOSH KHOKARALE	11/14/2012

### **RECEIVING PARTY DATA**

Name:	DOW CHEMICAL INTERNATIONAL PVT. LTD.	
Street Address:	1ST FLOOR, BLOCK B, 02, GODREJ IT PARK	
Internal Address:	GODREJ BUSINESS DISTRICT, PIROJSHANAGAR, L.B.S. MARG	
City:	VIKHROLI-MUMBAI	
State/Country:	INDIA	
Postal Code:	400 079	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14431038

### CORRESPONDENCE DATA

Fax Number: (937)449-6405

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: 9374496400

Email: katherine.ghearing@dinsmore.com

**Correspondent Name: DINSMORE & SHOHL LLP** 

FIFTH THIRD CENTER, ONE S. MAIN ST. Address Line 1:

Address Line 2: **SUITE 1300** 

Address Line 4: DAYTON, OHIO 45402

ATTORNEY DOCKET NUMBER:	DOW 72472 PA / 40224-442
NAME OF SUBMITTER:	KATHERINE GHEARING
SIGNATURE:	/Katherine Ghearing/
DATE SIGNED:	05/19/2016

**Total Attachments: 5** 

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> **PATENT** REEL: 038644 FRAME: 0640 503833575

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PATENT REEL: 038644 FRAME: 0641 FORM 110 (R 5/97)

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## 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:

A. PHAIS STAN	] [At:
At: PUNE TNOIM this 15th day of NOVEMBER, 2012	this day of , 20
Effective as of October 1, 2012  Signature:  SAke lelcor	Effective as of October 1, 2012
CATE Ales Cor	
Signature: SHAP W	Signature:
Full Name: Deepak Akolekar	Full Name: Phani Kiran Bolfapragada
Residence: Sri Sri Guru Gauranga Niwas	Residence: 22, Buena Monte, NCL Society
56 Girish Society	Panchvati
Behind Old Warje Jakat naka	Pashan Road,
Warje, Maharastra	Pune-411008
Pune-41 1052; INDIA	INDIA
Country: India	Country: India
Citizenship: Australia	Citizenship: India
P.O. Address: Same as Residence	P.O. Address: Same as Residence
Employed By: Dow Chemical International PVT. LTD.	Employed By: Dow Chemical International PVT. LTD.
Of Country: India	Of Country: India
At:	At:
this day of , 20	At:this day of, 20
Effective as of October 1, 2012	
Signature:	Signature:
Full Name: Santosh Khokarale	Full Name:
Residence: Denmark Technical University	Residence:
Room 137, Building 206	
Kgs. Lyngby, DK-2800	
DENMARK	
Country: Denmark	Country:
Citizenship: India	Citizenship:
Citizenship: India P.O. Address: Same as Residence	P.O. Address:
Citizenship: India	

<sup>( )</sup> Ad

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gament 140 is in the PNG ISH language and has the state aroung in other languages with the same 110 ramber and R Date

FORM 110 (R.5.97)

## INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

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Daw 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 a corporation organized and existing under the laws of thui (hereinather referred to as the "Assignee"); myrour entire right, the and increase 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 Assignce, and do hereby authorize Assignce or its designee to insert here the Priority Number, Filing Date, and Filing Country

	•	_	
1	Priority Number	Filing Date	Filing Country
-	61/708,229	October 1, 2012	United States of America
	01/700,227		

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 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: Pune -41100s, mahmashtra, gnoleca this 14 day of November, 2012
Essenting on a Contabor 1 2012
Effective as of October 1, 2012
Effective as of October 1, 2012  Signature: Phani Livan Bollapragada  Residence: 22, Buena Monte, NCL Society  Panchvati Pashan Road, Pune-411008 INDIA  Country: India Citizenship: India Citizenship: 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:

<sup>( )</sup> Additi

ament 110 is in the ENGLISH language and has the same meaning

FORM 110 (R 5/97)

# INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

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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 i ming country		
		Piller Data	Filing Country
Į	Priority Number	Filing Date	United States of America
	61/708,229	Oetober 1, 2012	Office States of America
	01//08,229		

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:
At:	this day of, 20
this day of	Effective as of October 1, 2012
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, Maharastra Pune-411052; INDIA Country: India Citizenship: Australia P.O. Address: Same as Residence Employed By: Dow Chemical International PVT. LTD. Of Country: India	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: DTU, LYNGGY, DK-2800, OENMA this 14 day of NOVEMBER, 20 12  Effective as of October 1, 2012  Signature: Full Name: Santosh Khokarale Residence: Denmark Technical University Room 137, Building 206 Kgs. Lyngby, DK-2800	At: this day of , 20  Signature: Full Name: Residence:
DENMARK  Country: Denmark Citizenship: India P.O. Address: Same as Residence Employed By: Dow Chemical International PVT. LTD. Of Country: India	Country: Citizenship: P.O. Address: Employed By: Of Country:

( ) Additional names and signatures are attached

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number FORM 660

### ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

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

hereby accept the ASSIGNMENT attached hereto which is dated: November 15, 2012; and November 14, 2012; effective as of October 1, 2012

From, the ASSIGNOR: Deepak Akolekar, Sri Sri Guru Gauranga Niwas, 56 Girish Society, Behind Old Warje Jakat naka, Pune-411052, India, Citizen of Australia; Phani Kiran Bollapragada, 22, Buena Monte, NCL Society, Pashan Road, Pune-411008, India, Citizen of India; and Santosh Khokarale, Denmark Technical University, Room 137, Building 206, Kgs. Lyngby, DK-2800, Denmark, Citizen of India

of the invention entitled:

COMPOSITIONS AND PROCESSES FOR MESOPOROUS SILICAS HAVING LARGE PORES WITH NARROW DIAMETER DISTRIBUTIONS

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at	Mumbai India	
this 21St	day of November	, 20 12

DOW CHEMICAL INTERNATIONAL PVT. LTD.

CORP. SEAL

By: VIPUL S. SHAH
PRESIDENT

PATENT REEL: 038644 FRAME: 0645

## 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. 1st 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 st day of November	20 [ 2_
	Jamen
- The state of the	Subscribing Witness

PATENT REEL: 038644 FRAME: 0646

RECORDED: 05/19/2016