# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3102448

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
JAYA MOHANAN	10/25/2013
PATRICK BURK	10/23/2013
MICHAEL J. BREEN	09/04/2014
BARBARA SLAWSKI	10/25/2013
MAKOTO NAGATA	09/16/2014
YASUYUKI BANNO	09/11/2014
EUNSEOK KIM	09/17/2014

### **RECEIVING PARTY DATA**

Name:	BASF CORPORATION
Street Address:	100 PARK AVENUE
City:	FLORHAM PARK
State/Country:	NEW JERSEY
Postal Code:	07932
Name:	N.E. CHEMCAT CORPORATION
Street Address:	WORLD TRADE CENTER BLDG.
Internal Address:	24TH FLOOR
City:	TOKYO
State/Country:	JAPAN
Postal Code:	105-6124
Name:	HEESUNG CATALYSTS CORPORATION
Street Address:	1532, SA-DONG
City:	KYUNGGI-DO
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
Postal Code:	404-201

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14536868

### **CORRESPONDENCE DATA**

Fax Number:

**PATENT** 

503055847 REEL: 034142 FRAME: 0850

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:** 9147857113

Email: andrea.dececchis@basf.com

**Correspondent Name:**BASF CORPORATION
Address Line 1: 100 PARK AVENUE

Address Line 4: FLORHAM PARK, NEW JERSEY 07932

ATTORNEY DOCKET NUMBER:	PF73261/CONT
NAME OF SUBMITTER:	MELANIE L. BROWN
SIGNATURE:	/Melanie L. Brown/
DATE SIGNED:	11/11/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

### **Total Attachments: 19**

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### COMBINED ASSIGNMENT AND DECLARATION

As an Assignment under 35 U.S.C. 261,

### WHEREAS,

- I, Jaya Mohanan, am a citizen of the United States of America and reside at 68 Linda Lane, Edison, New Jersey 08820 United States of America;
- I, Patrick Burk, am a citizen of the United States of America and reside at 104 Juniper Drive, Freehold, New Jersey 07728 United States of America;
- I, Michael J. Breen, am a citizen of the United States of America and reside at 9904 Mark Road, Erie, Pennsylvania 16509 United States of America;
- I, Barbara Slawski, am a citizen of the United States of America and reside at 8173 Washington Avenue, North Royalton, Ohio 44133 United States of America;

Makoto Nagata, am a citizen of Japan and with an address of 678, Ipponmatsu, Numazu, Shizuoka, 410-0314 Japan;

Yasuyuki Banno being a citizen of Japan and with an address of 678, Ipponmatsu, Numazu, Shizuoka, 410-0314 Japan; and

Eunseok Kim, being a citizen of Korea and with an address of 404-201, 1532, Sa-Dong, Sangruk-Go, Ansan-City, Kyunggi-Do, Korea

are the joint inventor(s) of the subject matter in

## 8-Ring Small Pore Molecular Sieve as High Temperature SCR Catalyst

for which I (we) have executed an application for Letters Patent of the United States on **October 17, 2013**, having the serial number of **14/056175**; and

WHEREAS, the latest effective date of this Assignment for each listed inventor is the date of the last signature below;

WHEREAS, said effective date of this Assignment for each inventor is within one (1) year of the filing date listed above;

INVENTOR	ASSIGNEE	ASSIGNEE ADDRESS
Jaya Mohanan, Patrick	BASF Corporation	100 Park Avenue, Florham Park,
Burk, Michael J. Breen,	·	New Jersey 07932 United States of
Barbara Slawski		America
Makato Nagata, Yasuyuki	N. E. Chemcat Corporation	24 <sup>th</sup> Floor, World Trade Center
Banno		Building, 2-4-1, Hamamatsu-cho,
		Minato-ku, Toyko, Japan 105-6124
Eunseok Kim	Heesung Catalysts	404-201, 1532, Sa-Dong, Sangruk-
	Corporation	Go, Ansan-City, Kyunggi-Do, Korea

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WHEREAS, each Assignee is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application from his inventor(s):

NOW, THEREFORE, in consideration of good and valuable consideration the receipt of which is hereby acknowledged, the said inventor(s) have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over unto its Assignee, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the invention, as described and claimed in the above-referenced patent application, the said improvements, and the said application, all applications derived therefrom and all continuing prosecution and RCE applications, conversions, divisions, renewals and continuations, in whole or in part, thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications including PCT applications for Letters Patent or Inventor's Certificates which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent or Inventor's Certificates which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof including the right to claim priority under any international treaty or convention of the abovereferenced patent application; and I/We hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to its Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I/WE HEREBY authorize the above-mentioned Assignee to insert/have inserted into this instrument the serial number and filing date of said patent application.

I/WE HEREBY covenant that I/We have full right to convey the entire interest herein assigned, and that I/We have not executed and will not execute any agreement in conflict herewith.

AND I/WE HEREBY further covenant and agree that I/We will communicate to our Assignee, its successors, legal representatives and assigns, any facts known to me/us respecting said invention and said improvements, and testify in any legal proceeding, sign all lawful papers, execute all continuing prosecution, divisional, continuing, reexamination and reissue applications, make all rightful oaths, and generally do everything possible to aid said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for and defend said inventions and improvements in all countries, it being understood that this Assignment shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

WHEREAS, the Assignees have no obligation to any of the listed inventors to maintain this Assignment in confidence and thus, Assignees may disclose it to third

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Docket No. 73261US

parties including recording it with patent offices and use it in any public way including litigation.

As a Declaration under 37 CFR 1.63, for a utility or design application using an Application Data Sheet (37 CFR 1.76), each inventor listed in this document for which a signature has been provided hereby declares that:

This Declaration is directed to United States application Serial **14/056175** filed **October 17, 2013**.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application for which this Declaration is being submitted.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

State of

ss.: County of

On this 25th day of 0ctober, before me, a Notary Public in and for the State and County aforesaid, personally appeared, 7AYA L, MoHANAN to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Barbara A. S. Notary Public

BARBARA A. SLATTERY NOTARY PUBLIC OF NEW JERSEY I.D. # 2427835 My Commission Expires 12/11/2017

IN TESTIMONY WHEREOF, I	hereunto	set my	hand	and	seal	the	day	and	year	
set opposite my respective signature.										
00 1 6 1		M ·	, ,	11	n					

Date: 09/04/2014 MM/DD/YYYY

Inventor's Signature

State of Chip

ss.: County of Cuyahoga

On this 4 day of September, 2014, before me, a Notary Public in and for the State and County aforesaid, personally appeared, Michael J. Breen to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Peggy A. Enderte Notary Public, State of Ohio My Commission Expires 6/8/2019

Date: 10/25/2013 MM/DD/YYYY

State of Ohlo ss.:
County of Cayahoga

On this 25 day of <u>October</u>, 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, <u>Ranking</u> Stawsking to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

TRAVIS LICHTENFELD Notary Public, State of Ohio ly Commission Expires

IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year

State of

On this 24th day of October, before me, a Notary Public in and for the State and County aforesaid, personally appeared, PAtrick Burk to me known to me to be the person of that name, who signed and sealed the foregoing

instrument, and he acknowledged the same to be his free act and deed.

BARBARA A. SLATTERY NOTARY PUBLIC OF NEW JERSEY I.D. # 2427835 My Commission Expires 12/1/2517

Vou A. &
Notary Public

Docket No. 73261US Serial No. 14/056175

### COMBINED ASSIGNMENT AND DECLARATION

As an Assignment under 35 U.S.C. 261,

### WHEREAS,

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- I, Michael J. Breen, am a citizen of the United States of America and reside at 9904 Mark Road, Erie, Pennsylvania 16509 United States of America;
- I, Barbara Slawski, am a citizen of the United States of America and reside at 8173 Washington Avenue, North Royalton, Ohio 44133 United States of America;

Makoto Nagata, am a citizen of Japan and with an address of 678, Ipponmatsu, Numazu, Shizuoka, 410-0314 Japan;

Yasuyuki Banno being a citizen of Japan and with an address of 678, Ipponmatsu, Numazu, Shizuoka, 410-0314 Japan; and

Eunseok Kim, being a citizen of Korea and with an address of 404-201, 1532, Sa-Dong, Sangruk-Go, Ansan-City, Kyunggi-Do, Korea

are the joint inventor(s) of the subject matter in

### 8-Ring Small Pore Molecular Sieve as High Temperature SCR Catalyst

for which I (we) have executed an application for Letters Patent of the United States on **October 17, 2013**, having the serial number of **14/056175**; and

WHEREAS, the latest effective date of this Assignment for each listed inventor is the date of the last signature below;

WHEREAS, said effective date of this Assignment for each inventor is within one (1) year of the filing date listed above;

INVENTOR	ASSIGNEE	ASSIGNEE ADDRESS
Jaya Mohanan, Patrick	BASF Corporation	100 Park Avenue, Florham Park,
Burk, Michael J. Breen,		New Jersey 07932 United States of
Barbara Slawski		America
Makato Nagata, Yasuyuki	N. E. Chemcat Corporation	24 <sup>th</sup> Floor, World Trade Center
Banno		Building, 2-4-1, Hamamatsu-cho,
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Eunseok Kim	Heesung Catalysts	404-201, 1532, Sa-Dong, Sangruk-
	Corporation	Go, Ansan-City, Kyunggi-Do, Korea

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WHEREAS, each Assignee is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application from his inventor(s):

NOW, THEREFORE, in consideration of good and valuable consideration the receipt of which is hereby acknowledged, the said inventor(s) have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over unto its Assignee, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the invention, as described and claimed in the above-referenced patent application, the said improvements, and the said application, all applications derived therefrom and all continuing prosecution and RCE applications, conversions, divisions, renewals and continuations, in whole or in part, thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications including PCT applications for Letters Patent or Inventor's Certificates which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent or Inventor's Certificates which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof including the right to claim priority under any international treaty or convention of the abovereferenced patent application; and I/We hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to its Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I/WE HEREBY authorize the above-mentioned Assignee to insert/have inserted into this instrument the serial number and filing date of said patent application.

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AND I/WE HEREBY further covenant and agree that I/We will communicate to our Assignee, its successors, legal representatives and assigns, any facts known to me/us respecting said invention and said improvements, and testify in any legal proceeding, sign all lawful papers, execute all continuing prosecution, divisional, continuing, reexamination and reissue applications, make all rightful oaths, and generally do everything possible to aid said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for and defend said inventions and improvements in all countries, it being understood that this Assignment shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

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Date:		
Date: MM	I/DD/YYYY	Inventor's Signature – Jaya Mohanan
State of	) ss.:	
County of	)	
the State and C me known to m	County aforesaid, person control to be the person control to the person control to the person control to the co	before me, a Notary Public in and fosonally appeared, to that name, who signed and sealed the foregoing e same to be his free act and deed.
		Notary Public
Date: MM		
MN	I/DD/YYYY	Inventor's Signature – Patrick Burk
State of	)	
County of	ss.: )	
the State and 0 me known to m	County aforesaid, person one to be the person of	, before me, a Notary Public in and fo sonally appeared, to foot that name, who signed and sealed the foregoing e same to be his free act and deed.
		Notary Public

Date:		
Date: MM	N/DD/YYYY	Inventor's Signature – Michael J. Breen
State of	) ss.:	
County of	ss.: )	
On this the State and 0 me known to ninstrument, and	day of County aforesaid, persone to be the person of the acknowledged the	, before me, a Notary Public in and for pnally appeared, to that name, who signed and sealed the foregoing same to be his free act and deed.
		Notary Public
set opposite my Date:MM	y respective signature.	Inventor's Signature – Barbara Slawski
State of	ss.:	
County of	)	
me known to n	ne to be the person of	, before me, a Notary Public in and for onally appeared, to that name, who signed and sealed the foregoing same to be his free act and deed.
		Notary Public

IN TESTIMONY WHEREOF, I here to opposite my respective signature.	unto set my hand and seal the day and year s
Date:09 <u>//6/20/4</u> 	Inventor's Signature - Makoto Nagata
IN TESTIMONY WHEREOF, I here to opposite my respective signature.	unto set my hand and seal the day and year s
Date: 9/11/2014 MM/DD/YYYY	Jasuyuki Bammo Inventor's Signature – Yasuyuki Banno
IN TESTIMONY WHEREOF, I here eat opposite my respective signature.	unto set my hand and seal the day and year s
Date:	Inventor's Signature – Eunseok Kim

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Docket No. 73261US Serial No. 14/056175

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Burk, Michael J. Breen,		New Jersey 07932 United States of
Barbara Slawski		America
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I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Date:		
Date: MM/DD/YYYY		Inventor's Signature – Jaya Mohanan
State of	) ss.:	
County of	)	
On this _ the State and C me known to m instrument, and	day of county aforesaid, persion of the to be the person of the acknowledged the	, before me, a Notary Public in and for sonally appeared, to of that name, who signed and sealed the foregoing e same to be his free act and deed.
		Notary Public
Date:MM	respective signature	Inventor's Signature – Patrick Burk
State of	) ss.:	
County of	)	
the State and C me known to m	County aforesaid, person one to be the person of the country and the person of the country are	, before me, a Notary Public in and for sonally appeared, to find that name, who signed and sealed the foregoing e same to be his free act and deed.
		Notary Public

Date:				
Date: MM/DD/YYYY		Inventor's Signature –	Inventor's Signature – Michael J. Breen	
State of	)			
County of	ss.: )			
On this _ the State and C me known to m instrument, and	day of county aforesaid, perso te to be the person of he acknowledged the	, before me, a Notary onally appeared, that name, who signed and seal same to be his free act and deed	Public in and for to led the foregoing l.	
		Notary P	ublic	
,	respective signature.			
Date:MM	/DD/YYYY	Inventor's Signature –	Barbara Slawski	
State of	) ss.:			
County of	)			
On this _ the State and C me known to m instrument, and	day of County aforesaid, persone to be the person of he acknowledged the	, before me, a Notary pnally appeared, that name, who signed and seal same to be his free act and deed	Public in and for to led the foregoing	
·	J	Notary P		

	IN TESTIMONY WHEREOF, I he osite my respective signature.	ereunto set my hand and seal the day and year s
Date: _	MM/DD/YYYY	Inventor's Signature – Makoto Nagata
	IN TESTIMONY WHEREOF, I he osite my respective signature.	ereunto set my hand and seal the day and year s
Date: _	MM/DD/YYYY	Inventor's Signature – Yasuyuki Banno
et oppo	IN TESTIMONY WHEREOF, I he osite my respective signature.	ereunto set my hand and seal the day and year s
Date: _	09 / 17/ 2014 MM/DD/YYYY	Inventor's Signature – Eunseok Kim

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**RECORDED: 11/11/2014**