PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Bilge Yilmaz	05/07/2012
Ulrich Mueller	06/15/2012
Faruk Ozkirim	06/05/2012
Dirk de Vos	03/09/2012
Feng-Shou Xiao	05/27/2012
Takashi Tatsumi	03/29/2012
Xinhe Bao	03/09/2012
Weiping Zhang	03/23/2012
Hermann Gies	03/08/2012
Hiroyuki Imai	03/30/2012
Bart Tijsebaert	05/18/2012

RECEIVING PARTY DATA

Name:	BASF SE
Street Address:	Carl-Bosch-Strasse 38
City:	Ludwigshafen
State/Country:	GERMANY
Postal Code:	67056

Name:	Tokyo Institute of Technology
Street Address:	2-12-1 Ookayama, Meguro-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	152-8550

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13438408

PATENT

REEL: 028407 FRAME: 0236

CORRESPONDENCE DATA

Fax Number: (732)815-1330 Phone: 732-815-0404

Email: spedersen@dsiplaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Diehl Servilla LLC
Address Line 1: 33 Wood Avenue South
Address Line 2: Second Floor, Suite 210
Address Line 4: Iselin, NEW JERSEY 08830

ATTORNEY DOCKET NUMBER: BSE0084-00US

NAME OF SUBMITTER: Rebecca A. Smirk

Total Attachments: 21

source=00278416#page1.tif

source=00278416#page2.tif

source=00278416#page3.tif

source=00278416#page4.tif

source=00278416#page5.tif

source=00278416#page6.tif

source=00278416#page7.tif

source=00278416#page8.tif

source=00278416#page9.tif

source=00278416#page10.tif

source=00278416#page11.tif

source=00278416#page12.tif

source = 00278416 # page 13.t if

source=00278416#page14.tif

source=00278416#page15.tif

source=00278416#page16.tif

source=00278416#page17.tif

source=00278416#page18.tif

source=00278416#page19.tif

source=00278416#page20.tif

source=00278416#page21.tif

PATENT REEL: 028407 FRAME: 0237

Page 1 of 3 0000071709 SE/DRO

Assignment of Application

WHEREAS; I (WE)

Bilge Yilmaz, 87 Christopher Street Apt. 7, New York, NY 10014, United States of America Citizen of United States of America

Ulrich Müller, Am Stecken 14a, 67435 Neustadt, Germany Citizen of Germany

Faruk Özkirim, Ellerstadterstraße 43, 67071 Ludwigshafen, Germany Citizen of Turkey

Dirk de Vos, Bergestraat 17, 3220 Holsbeek, Belgium Citizen of Belgium

Feng-Shou Xiao, 1-10# Mingde Road 22, 130023 Changchun, China Citizen of China

Takashi Tatsumi, 4-30-2 Kamiasao, Asao-ku, Kawasaki 215-0021, Japan Citizen of Japan

Xinhe Bao, 457 Zhong Shan Road, 116011 Dalian, China Citizen of China

Weiping Zhang, No. 27-3-301 Xin Xin Yuan, 116023 Dalian City North Gate Dut, China Citizen of China

Hermann Gies, Alte Bergstr. 66, 45549 Sprockhövel, Germany Citizen of Germany

Hiroyuki Imai, CK Suzukake-dai 434, 3-1-3 Minami-tsukushino, Machida, Tokyo, Japan Citizen of Japan

Bart Tijsebaert, Varenslaan 2, 8200 Sint-Andries, Belgium Citizen of Belgium

respectively, have invented certain new and useful improvements in

for which an application for Letters Patent was executed on

(Application No.

13/438408

, filed

April 3, 2012

), and

WHEREAS, BASF SE, having a place of business at 67056 Ludwigshafen, Germany and Tokyo Institute of Technology, having a place of business at 152-8550 Tokyo, Japan (hereinafter referred to as "ASSIGNEES") are desirous of acquiring, and of jointly owning equal, undivided shares in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of One Dollar (US\$1.00) per inventor, the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

USA Page 2 of 3 0000071709 SE/DRO

FURTHER, I (WE) agree that I (WE) will communicate to said ASSIGNEES, or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **Diehl Servilla LLC**, 33 Wood Ave South, Second Floor, Suite 210, Iselin, New Jersey 08830, (telephone 732-815-0404; FAX 732-815-1330) the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

 $\mathbf{U}\,\mathbf{S}\,\mathbf{A}$

Page 3 of 3 0000071709 SE/DRO

Date:	5/7/2012	Signature of Inventor:	Bilge Yilmaz
Date:_		Signature of Inventor:	Ulrich Müller
Date:		Signature of Inventor:	Faruk Özkirim
Date:		Signature of Inventor:	Dirk de Vos
Date:_		Signature of Inventor:	
Date:_		Signature of Inventor:	Takashi Tatsumi
Date:_		Signature of Inventor:	Xinhe Bao
Date:_		Signature of Inventor:	Weiping Zhang
Date:_		Signature of Inventor:	Hermann Gies
Date:		Signature of Inventor:	Hiroyuki Imai
Date:_	<u>. </u>	Signature of Inventor:	

Nr. 3099 S. 47

U S A Page 1 of 3 0000071709 SE/DRO

Assignment of Application

WHEREAS; I (WE)

Bilge Yilmaz, 87 Christopher Street Apt. 7, New York, NY 10014, United States of America Citizen of United States of America

Ulrich Müller, Am Stecken 14a, 67435 Neustadt, Germany Citizen of Germany

Faruk Özkirim, Ellerstadterstraße 43, 67071 Ludwigshafen, Germany Citizen of Turkey

Dirk de Vos, Bergestraat 17, 3220 Holsbeck, Belgium Citizen of Belgium

Feng-Shou Xiao, 1-10# Mingde Road 22, 130023 Changchun, China Citizen of China

Takashi Tatsumi, 4-30-2 Kamiasao, Asao-ku, Kawasaki 215-0021, Japan Citizen of Japan

Xinhe Bao, 457 Zhong Shan Road, 116011 Dalian, China Citizen of China

Weiping Zhang, No. 27-3-301 Xin Xin Yuan, 116023 Dalian City North Gate Dut, China Citizen of China

Hermann Gies, Alte Bergstr. 66, 45549 Sprockhövel, Germany Citizen of Germany

Hiroyuki Imai, CK Suzukake-dai 434, 3-1-3 Minami-tsukushino, Machida, Tokyo, Japan Citizen of Japan

Bart Tijsebaert, Varenslaan 2, 8200 Sint-Andries, Belgium Citizen of Belgium

respectively, have invented certain new and useful improvements in

for which an application for Letters Patent was executed on

(Application No.

13/438408

, filed

April 3, 2012

), and

WHEREAS, BASF SE, having a place of business at 67056 Ludwigshafen, Germany and Tokyo Institute of Technology, having a place of business at 152-8550 Tokyo, Japan (hereinafter referred to as "ASSIGNEES") are desirous of acquiring, and of jointly owning equal, undivided shares in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of One Dollar (US\$1.00) per inventor, the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Stand: 12/2011 - June 12/2011

Nr. 3099 S. 48

USA
Page 2 of 3
0000071709 SE/DRO

FURTHER, I (WE) agree that I (WE) will communicate to said ASSIGNEES, or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Diehl Servilla LLC, 33 Wood Ave South, Second Floor, Suite 210, Iselin, New Jersey 08830, (telephone 732-815-0404; FAX 732-815-1330) the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Stand; 12/2011 pdusass2 - 250120 + 250121

PATENT REEL: 028407 FRAME: 0242

U S APage 3 of 3
0000071709 SE/DRO

	, imm		Same of the same o
Date:	,	Signature of Inventor:	
			Bilge Yilmaz
Date:	es. de. zon	Signature of Inventor:	L. 1
			/ Ulrich Müller
Date:	5.6.12	Signature of Inventor:	<u> </u>
			Paruk Özkirim
Date:		Signature of Inventor:	<u> </u>
			Dirk de Vos
Date:		Signature of Inventor:	
			Feng-Shou Xiao
Date:		Circulation of Circulation	War
Date		Signature of Inventor:	Takashi Tatsumi
Date:		_ Signature of Inventor:	<u> </u>
			Xinhe Bao
	1	Signature of Inventor:	weight.
Date:			Weiping Zhang
Date:	por no	Signature of Inventor:	and the second second
_			Hermann Gies
Date:		Signature of Inventor:	
			Hiroyuki Imai
Date:	J.	Signature of Inventor:	
			Bart Tijsebaert

Shand: 52/2011 advessed: 150120 + 25011

USA Page 1 of 3 0000071709 SE/DRO

Assignment of Application

WHEREAS; I (WE)

Bilge Yilmaz, 87 Christopher Street Apt. 7, New York, NY 10014, United States of America Citizen of United States of America

Ulrich Müller, Am Stecken 14a, 67435 Neustadt, Germany Citizen of Germany

Faruk Özkirim, Ellerstadterstraße 43, 67071 Ludwigshafen, Germany Citizen of Turkey

Dirk de Vos, Bergestraat 17, 3220 Holsbeek, Belgium Citizen of Belgium

Feng-Shou Xiao, 1-10# Mingde Road 22, 130023 Changchun, China Citizen of China

Takashi Tatsumi, 4-30-2 Kamiasao, Asao-ku, Kawasaki 215-0021, Japan Citizen of Japan

Xinhe Bao, 457 Zhong Shan Road, 116011 Dalian, China Citizen of China

Weiping Zhang, No. 27-3-301 Xin Xin Yuan, 116023 Dalian City North Gate Dut, China Citizen of China

Hermann Gies, Alte Bergstr. 66, 45549 Sprockhövel, Germany Citizen of Germany

Hiroyuki Imai, CK Suzukake-dai 434, 3-1-3 Minami-tsukushino, Machida, Tokyo, Japan Citizen of Japan

Bart Tijsebaert, Varenslaan 2, 8200 Sint-Andries, Belgium Citizen of Belgium

respectively, have invented certain new and useful improvements in

for which an application for Letters Patent was executed on

(Application No.

13/438409

, filed

April 3, 2012

), and

WHEREAS, BASF SE, having a place of business at 67056 Ludwigshafen, Germany and Tokyo Institute of Technology, having a place of business at 152-8550 Tokyo, Japan (hereinafter referred to as "ASSIGNEES") are desirous of acquiring, and of jointly owning equal, undivided shares in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of One Dollar (US\$1.00) per inventor, the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

U S A Page 2 of 3 0000071709 SE/DRO

FURTHER, I (WE) agree that I (WE) will communicate to said ASSIGNEES, or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **Diehl Servilla LLC**, 33 Wood Ave South, Second Floor, Suite 210, Iselin, New Jersey 08830, (telephone 732-815-0404; FAX 732-815-1330) the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Stand: 52/2011 oducace? - 240120 + 250121

Page 3 of 3 0000071709 SE/DRO

Date:	Signature of Inventor:	Bilge Yilmaz
Daте:	Signature of Inventor:	Ulrich Müller
Date:	Signature of Inventor:	Faruk Özkirim
Date: 9.3 /2	Signature of Inventor:	Dirk de Vos
Date:	Signature of Inventor:	Feng-Shou Xiao
Date:	Signature of Inventor.	
Date:	Signature of Inventor:	
Date:	Signature of Inventor:	Weiping Zhang
Date:	Signature of Inventor:	Hermann Gies
Date:	Signature of Inventor:	Hiroyuki Imai
Date: <u>18 /5/2012</u>	Signature of Inventor:	Bart Tijsebaert

U S APage 1 of 3
0000071709 SE/DRO

Assignment of Application

WHEREAS; I (WE)

Bilge Yilmaz, 87 Christopher Street Apt. 7, New York, NY 10014, United States of America Citizen of United States of America

Ulrich Müller, Am Stecken 14a, 67435 Neustadt, Germany Citizen of Germany

Faruk Özkirim, Ellerstadterstraße 43, 67071 Ludwigshafen, Germany Çitizen of Turkey

Dirk de Vos, Bergestraat 17, 3220 Holsbeek, Belgium Citizen of Belgium

Feng-Shou Xiao, 1-10# Mingde Road 22, 130023 Changchun, China Citizen of China

Takashi Tatsumi, 4-30-2 Kamiasao, Asao-ku, Kawasaki 215-0021, Japan Citizen of Japan

Xinhe Bao, 457 Zhong Shan Road, 116011 Dalian, China

Citizen of China

Weiping Zhang, No. 27-3-301 Xin Xin Yuan, 116023 Dalian City North Gate Dut, China Citizen of China

Hermann Gies, Alte Bergstr. 66, 45549 Sprockhövel, Germany Citizen of Germany

Hiroyuki Imai, CK Suzukake-dai 434, 3-1-3 Minami-tsukushino, Machida, Tokyo, Japan Citizen of Japan

Bart Tijsebaert, Varenslaan 2, 8200 Sint-Andries, Belgium Citizen of Belgium

respectively, have invented certain new and useful improvements in

for which an application for Letters Patent was executed on

(Application No.

13/438400

, filed

April 3, 2012

), and

WHEREAS, BASF SE, having a place of business at 67056 Ludwigshafen, Germany and Tokyo Institute of Technology, having a place of business at 152-8550 Tokyo, Japan (hereinafter referred to as "ASSIGNEES") are desirous of acquiring, and of jointly owning equal, undivided shares in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of One Dollar (US\$1.00) per inventor, the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

S(azsk): 12/2018 pdusass2 - 250120 + 250121

U S A Page 2 of 3 0000071709 SE/DRO

FURTHER, I (WE) agree that I (WE) will communicate to said ASSIGNEES, or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **Diehl Servilla LLC**, 33 Wood Ave South, Second Floor, Suite 210, Iselin, New Jersey 08830, (telephone 732-815-0404; FAX 732-815-1330) the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

U S APage 3 of 3 0000071709 SE/DRO

Date:	Signature of Lagrange.	
	Signature of Inventor:	Bilge Yilmaz
Date:	Signature of Inventor:	Ulrich Müller
Date:	Signature of Inventor:	Faruk Özkirim
Date:	Signature of Inventor:	Dirk de Vos
Date: May 27, 2017	Signature of Inventor:	Feng-Show Xiao
Date:		· ·
Date:		
Date:	Signature of Inventor:	Weiping Zhang
Date:	Signature of Inventor:	Hermann Gies
Date:	Signature of Inventor:	Hiroyuki Imai
Date:	Signature of Inventor:	Bart Tijsebaert

Stand: 12/2011 polisses:2 - 250120 + 250121

USA Page 1 of 3 0000071709 SE/DRO

Assignment of Application

WHEREAS; I (WE)

Bilge Yilmaz, 87 Christopher Street Apt. 7, New York, NY 10014, United States of America Citizen of United States of America

Ulrich Müller, Am Stecken 14a, 67435 Neustadt, Germany Citizen of Germany

Faruk Özkirim, Ellerstadterstraße 43, 67071 Ludwigshafen, Germany Citizen of Turkey

Dirk de Vos, Bergestraat 17, 3220 Holsbeek, Belgium Citizen of Belgium

Feng-Shou Xiao, 1-10# Mingde Road 22, 130023 Changchun, China Citizen of China

Takashi Tatsumi, 4-30-2 Kamiasao, Asao-ku, Kawasaki 215-0021, Japan Citizen of Japan

Xinhe Bao, 457 Zhong Shan Road, 116011 Dalian, China Citizen of China

Weiping Zhang, No. 27-3-301 Xin Xin Yuan, 116023 Dalian City North Gate Dut, China Citizen of China

Hermann Gles, Alte Bergstr. 66, 45549 Sprockhövel, Germany Citizen of Germany

Hiroyuki Imai, CK Suzukake-dai 434, 3-1-3 Minami-tsukushino, Machida, Tokyo, Japan Citizen of Japan

Bart Tijsebaert, Varenslaan 2, 8200 Sint-Andries, Belgium Citizen of Belgium

respectively, have invented certain new and useful improvements in

for which an application for Letters Patent was executed on

(Application No.

13/438408

filed April 3, 2012

), and

WHEREAS, BASF SE, having a place of business at 67056 Ludwigshafen, Germany and Tokyo Institute of Technology, having a place of business at 152-8550 Tokyo, Japan (hereinafter referred to as "ASSIGNEES") are desirous of acquiring, and of jointly owning equal, undivided shares in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of One Dollar (US\$1.00) per inventor, the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

U S APage 2 of 3
0000071709 SE/DRO

FURTHER, I (WE) agree that I (WE) will communicate to said ASSIGNEES, or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **Diehl Servilla LLC**, 33 Wood Ave South, Second Floor, Suite 210, Iselin, New Jersey 08830, (telephone 732-815-0404; FAX 732-815-1330) the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

U S A Page 3 of 3 0000071709 SE/DRO

	A CONTRACTOR OF THE PROPERTY.		
Date:	<i>#</i>	Signature of Inventor:	
			Bilge Yilmaz
	A Comment		w'
Date:	· · · · · · · · · · · · · · · · · · ·	Signature of Inventor:	<u> </u>
			Ulrich Müller
	market .		/
Date:		Signature of Inventor:_	
			Faruk Özkirim
			/
Date:		Signature of Inventor:_	
			Dirk de Vos
Date:		Signature of Inventor:	
			Feng-Shou Xiao
1 4 0	. 1 . 1 . 0	Signature of Inventor:	at n
Date:	March 27, 2012		Makels
	,		Takashi Tatsumi
		Signature of Inventor:	- Led W
Date:_			Xinhe Bao
			Anne bao
	mark and a second	Signature of Inventor:	
Date:			Weiping Zhang
	مي		, orbing mining
Data	/	Ci	
Date:		Signature of Inventor:	Hermann Gies
Date: March 30, 2			17
	March 30, 20/2	Signature of Inventor:	Arrys 6: /har
	·	orgnamic or inventor	Hiroyuki Imai
	7		
Date:		Signature of Inventor:_	
		_ 516Hattate 01 HIVERTON	Bart Tijsebaert

Page 1 of 3 0000071709 SE/DRO

Assignment of Application

WHEREAS; I (WE)

Bilge Yilmaz, 87 Christopher Street Apt. 7, New York, NY 10014, United States of America Citizen of United States of America

Ulrich Müller, Am Stecken 14a, 67435 Neustadt, Germany Citizen of Germany

Faruk Özkirim, Ellerstadterstraße 43, 67071 Ludwigshafen, Germany Citizen of Turkey

Dirk de Vos, Bergestraat 17, 3220 Holsbeek, Belgium Citizen of Belgium

Feng-Shou Xiao, 1-10# Mingde Road 22, 130023 Changchun, China Citizen of China

Takashi Tatsumi, 4-30-2 Kamiasao, Asao-ku, Kawasaki 215-0021, Japan Citizen of Japan

Xinhe Bao, 457 Zhong Shan Road, 116011 Dalian, China

Citizen of China

Weiping Zhang, No. 27-3-301 Xin Xin Yuan, 116023 Dalian City North Gate Dut, China Citizen of China

Hermann Gies, Alte Bergstr. 66, 45549 Sprockhövel, Germany

Citizen of Germany

Hiroyuki Imai, CK Suzukake-dai 434, 3-1-3 Minami-tsukushino, Machida, Tokyo, Japan Citizen of Japan

Bart Tijsebaert, Varenslaan 2, 8200 Sint-Andries, Belgium Citizen of Belgium

respectively, have invented certain new and useful improvements in

for which an application for Letters Patent was executed on

(Application No.

13/438408

, filed

April 3, 2012

), and

WHEREAS, BASF SE , having a place of business at 67056 Ludwigshafen, Germany and Tokyo Institute of Technology, having a place of business at 152-8550 Tokyo, Japan (hereinafter referred to as "ASSIGNEES") are desirous of acquiring, and of jointly owning equal, undivided shares in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of One Dollar (US\$1.00) per inventor, the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Page 2 of 3 0000071709 SE/DRO

FURTHER, I (WE) agree that I (WE) will communicate to said ASSIGNEES, or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **Diehl Servilla LLC**, 33 Wood Ave South, Second Floor, Suite 210, Iselin, New Jersey 08830, (telephone 732-815-0404; FAX 732-815-1330) the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

U S A Page 3 of 3 0000071709 SE/DRO

Date:		Signature of Inventor:	
			Bilge Yilmaz
Date:		Signature of Inventor:	Ulrich Müller
Date:		Signature of Inventor:	Faruk Özkirim
Date:		Signature of Inventor:	Dirk de Vos
Date:		Signature of Inventor:	Feng-Shou Xiao
Date:		Signature of Inventor:	Takashi Tatsumì
Date: 2	212.3.9	Signature of Inventor:	Xinhe Bao
Date: 2	012.3.23	Signature of Inventor:	Weiping Zhang
Date:		Signature of Inventor:	Hermann Gies
Date:		Signature of Inventor:	Hiroyuki Imai
Date:		Signature of Inventor:	Bart Tijsebaert

Page 1 of 3 0000071709 SE/DRO

Assignment of Application

WHEREAS; I (WE)

Bilge Yilmaz, 87 Christopher Street Apt. 7, New York, NY 10014, United States of America Citizen of United States of America

Ulrich Müller, Am Stecken 14a, 67435 Neustadt, Germany Citizen of Germany

Faruk Özkirim, Ellerstadterstraße 43, 67071 Ludwigshafen, Germany Citizen of Turkey

Dirk de Vos, Bergestraat 17, 3220 Holsbeek, Belgium Citizen of Belgium

Feng-Shou Xiao, 1-10# Mingde Road 22, 130023 Changchun, China Citizen of China

Takashi Tatsumi, 4-30-2 Kamiasao, Asao-ku, Kawasaki 215-0021, Japan Citizen of Japan

Xinhe Bao, 457 Zhong Shan Road, 116011 Dalian, China

Citizen of China

Weiping Zhang, No. 27-3-301 Xin Xin Yuan, 116023 Dalian City North Gate Dut, China Citizen of China

Hermann Gies, Alte Bergstr. 66, 45549 Sprockhövel, Germany Citizen of Germany

Hiroyuki Imai, CK Suzukake-dai 434, 3-1-3 Minami-tsukushino, Machida, Tokyo, Japan Citizen of Japan

Bart Tijsebaert, Varenslaan 2, 8200 Sint-Andries, Belgium Citizen of Belgium

respectively, have invented certain new and useful improvements in

for which an application for Letters Patent was executed on

(Application No.

13/438408

, filed

April 3, 2012

), and

WHEREAS, BASF SE , having a place of business at 67056 Ludwigshafen, Germany and Tokyo Institute of Technology, having a place of business at 152-8550 Tokyo, Japan (hereinafter referred to as "ASSIGNEES") are desirous of acquiring, and of jointly owning equal, undivided shares in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of One Dollar (US\$1.00) per inventor, the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

odusass2 - 250120 + 250]

Page 2 of 3 0000071709 SE/DRO

FURTHER, I (WE) agree that I (WE) will communicate to said ASSIGNEES, or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **Diehl Servilla LLC**, 33 Wood Ave South, Second Floor, Suite 210, Iselin, New Jersey 08830, (telephone 732-815-0404; FAX 732-815-1330) the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Page 3 of 3 0000071709 SE/DRO

4		/
Date:	Signature of Inventor:	
		Bilge Yilmaz
s. ^d		
Date:	Signature of Inventor:	
		Ulrich Müller
and the second second		And the second second
Date:	Signature of Inventor:	
7		Faruk Özkirim
<i>/</i> *		
Date:	Signature of Inventor:	701.1.17
/		Dirk de Vos
_		
Date:	Signature of Inventor:	Feng-Shou Xiao
		reng-snou Alao
Deter		p. Reference
Date:	Signature of Inventor:	Takashi Tatsumi
<i>y</i>		
Date:	Signature of Inventor:	e de la companya del companya de la companya del companya de la co
Dato.	Signature of inventor:	Xinhe Bao
		p ^r
Date:	Signature of Inventor:	£
	_ Biguitate of Inventor	Weiping Zhang
Date: 8.3. 201元	Signature of Inventor:	he men (2
" -		Hermann Gies
Date:	Signature of Inventor:	
		Hiroyuki Imai
		<i>(</i>
Date:	Signature of Inventor:	
		Bart Tijsebaert

Stand: 12/2011 adusses? - 150120 + 95013