505745598 10/29/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5792411

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUJIANG WANG	02/20/2017
LING LI	02/20/2017
SHILING ZHANG	02/07/2017
DONG YUN	02/08/2017
YOUJUN WU	02/07/2017
LUKASZ ZUKOWSKI	02/07/2017

RECEIVING PARTY DATA

Name:	DOW GLOBAL TECHNOLOGIES LLC	
Street Address:	2040 DOW CENTER	
City:	MIDLAND	
State/Country:	MICHIGAN	
Postal Code:	48674	
Name:	ROHM AND HAAS COMPANY	
Street Address:	100 INDEPENDENCE MALL WEST	
City:	PHILADELPHIA	
State/Country: PENNSYLVANIA		
Postal Code: 19106		
Name:	UCAR EMULSION SYSTEMS FZE	
Street Address:	P.O. BOX 16943	
Internal Address:	JEBEL ALI FREE ZONE	
City:	DUBAI	
State/Country:	State/Country: UNITED ARAB EMIRATES	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15556302

CORRESPONDENCE DATA

Fax Number: (989)636-3237

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.

505745598 REEL: 050850 FRAME: 0516

PATENT

Phone: 989-636-8434

Email: dorothykennedy@dow.com

Correspondent Name: DOW GLOBAL TECHNOLOGIES LLC
Address Line 1: C/O THE DOW CHEMICAL COMPANY

Address Line 2: 2040 DOW CENTER

Address Line 4: MIDLAND, MICHIGAN 48674

ATTORNEY DOCKET NUMBER:	76987-US-PCT
NAME OF SUBMITTER:	KARL E. STAUSS
SIGNATURE:	/KARL E. STAUSS/
DATE SIGNED:	10/29/2019

Total Attachments: 10

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FORM 110 (8.591)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

Vive 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 emitted: A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF

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 suned 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:

> Rohm and Haas Company 100 Independence Mail West Philadelphia, Pennsylvania 19106 United States of America

an entity organized and eximing under the laws of the state of Delaware (hereinafter referred to as the "Assignee"); my/our entire right, title and imerest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Leners Patent in its own name, or in the name of its designoe (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

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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.

Vive authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assigned; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under coverant 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/as:

garden garden and the company and a company	
At: 10.996 Zarian Rod Shenishan, Union this Jarth day of Ledge 720 II	At: 1/0.176
this Jath day of Fedge 720 17	this 7/2004 day of 7/200 , 20 20 7
Effective as of March 31, 2015	Effective as of March 31, 2015
Signature: Juliana Wasan	S
Signature: /V41 W-2 ///22	Signature: Full Name: Ling Li Mulling Address: No. 936 Thumburg Bood
Full Name: Yujiata(Wang)	Full Name: Ling Li
Mailing Address: No. 936, Zhangheng Road	Mailing Address: No. 936, Zhangheng Road
Zhangjiang Hi-Tech Park	Zhangjiang Hi-Yech Park
Shanghai 201203	Shanghai 201203
People's Republic of China	People's Republic of China
At:	An
this day of, 20	this day of, 20
Signature:	Signature:
Full Name:	Full Name:
Mailing Address:	Mailing Address:
At:	A:
this day of , 20	this day of , 20
Signature:	Signature:
Full Name:	Full Name:
Mailing Address:	Mailing Address:
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ond 110 is to the ENGLIEK language and has the same misseing at other languages, with the cause 110 number and Nithate

FORM 110 (# \$97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I and/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: A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF

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 remaneration received for my/our work, I/we sell, assign and transfer unto:

> Dow Chemical (China) Investment Company Limited Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road Zhangjiang Hi-Tech Park Shanghai 201203 People's Republic of China

an entity organized and existing under the laws of Chins (bereinafter 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
PCT/CN2015/075462	March 31, 2015	FCT

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 Assigner 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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ad and Declared by me/us:	es e Te
Ar: this day of , 20 17 Effective as of March 31, 2015 Signature: Swifing Zhang Full Name: Shiling Zhang Mailing Address: No. 936, Zhangheng Road Zhangjiang Hi-Tech Park Shanghai 201203 People's Republic of China	At: Casa Casa Casa Casa Casa Casa Casa Cas
At: Sharphai Cher A this day of this day of the this day of the this day of the this day of this day o	At: this day of, 20 Signature: Full Name: Mailing Address:
At:this, 20	At: this day of, 20
Signature: Full Name; Mailing Address:	Signature: Full Name: Mailing Address:

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FORM 110 (R 5/97)

Taks Audgement 110 is in the EMELECH language and has the more preming to return languages with the same 110 stanton and Milway

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: A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF

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:

UCAR Emulsion Systems FZE P.O. Box 16943 Jebel Ali Free Zone Dubai United Arab Emirates

an entity organized and existing under the laws of the United Arab Emirates (hereinalter 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
PCT/CN2015/075462	March 31, 2015	PCL

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.

Vive 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 recordat 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:

Ac Outail Tebu Alil WAE	At:
At: Output levit Att VAE this day of O1/O7 .20 17 Effective as of March 31, 2015	this, 20
Effective as of March 31, 2015	
Signature: Łukosz Zukowski	Signature: Full Name:
Full Name: Lukasz Zukowski	Muiling Address:
Mailing Address: Jobel Ali Free Zone Dubai 16943	winner runiss.
United Arab Emirates	
Chuco Ango Palanes	{
At:	At:
this day of, 20	this day of, 20
Signature: Full Name: Mailing Address:	Signature: Full Name: Mailing Address:
At	At:
this day of, 20	this day of, 20
Signature: Full Name: Mailing Address:	Signature: Full Name: Mailing Address:

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

DOW GLOBAL TECHNOLOGIES LLC

2040 Dow Center

Midland, Michigan 48674 United States of America

hereby accept the ASSIGNMENT which is dated: Follow, 20, 2017

From, the ASSIGNOR:

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674 United States of America

of the invention entitled:

A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF

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 Midland, Michigan 48674, USA
his 2214 day of France , 20 17

CORP. SEAL DOW GLOBAL TECHNOLOGIES LLC

SUSAN M. ZERULL Authorized Representative

PATENT

REEL: 050850 FRAME: 0521

ASSIGNMENT

(with Priority Rights)

INVENTORSHIP DECLARATION

We. ASSIGNOR, at:

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674 United States of America

an entity organized and existing under the laws of the State of Delaware, United States of America do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

Shiling Zhang, residing at No. 936, Zhungheng Road, Zhangjiang Hi-Tech Park, Shanghai 201203, People's Republic of China; Dong Yun, residing at No. 936, Zhungheng Road, Zhangjiang High-Tech Park, Shanghai 201203, People's Republic of China; and Youjun Wu, residing at No. 936, Zhangheng Road, Zhangjiang High-Tech Park, Shanghai 201203, People's Republic of China

by an Assignment dated: February 7, 2017; February 8, 2017; and February 7, 2017, respectively of an invention retaining to and emitted:

A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF

We do hereby declare, for good and valuable consideration, received, sell, assign, and transfer unto

WE, the ASSIGNEE:

DOW GLOBAL TECHNOLOGIES LLC

2040 Dow Center

Midland, Michigan 48674 United States of America

an entity organized and existing under the laws of the State of Belaware, United States of America our entire right, little and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominec; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all international Conventions and Treaties in the name of said Assignce, and do hereby authorize said Assignce to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2015/075462	March 31, 2015	((C, l,

of the application on which the priority will be based; and in and to any Louers Patent that may be issued for said invention any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to been here the corresponding Application Number, Filing Date, and Filing Country

	Application Number	Filing Date	Filing Country	3
				3

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do beneby authorize and request that any such Letters Patent be issued to said Assignee in accordance berewith, and consent to the recordal of this Assignment being under covenant, not only that we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right beneforce given.

Subscribed and Sworn by us at _____Midland, Michigan 48674, USA

his <u>22 ¹⁰⁰day</u> of <u>February</u> 20-17

CORP. SEAL: THE DOW CHEMICAL COMPANY

DARRYL P. FRICKEY

Authorized Representative

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674 United States of America

bereby accept the ASSIGNMENT which is dated: February 22, 2017

From, the ASSIGNOR:

DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED

Unit 63, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road

Zhangjiang Hi-Tech Park

Shanghai 201203

People's Republic of China

of the invention entitled:

A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF

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

Midland, Michigan 48674, USA

this 2010

day of Francian

, 20 17

CORP. SEAL THE DOW CHEMICAL COMPANY

Ву:____

DARRYL P. FRÍCKEY
Authorized Representative

PATENT

REEL: 050850 FRAME: 0523

ASSIGNMENT

(with Priority Rights)

INVENTORSHIP DECLARATION

We, ASSIGNOR, of:

DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED

Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road

Zhangjiang Hi-Tech Park

Shanghai 201203

People's Republic of China

an entity organized and existing under the laws of CHINA do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

Shiling Zhang, residing at No. 936, Zhangheng Road, Zhangjiang Hi-Tech Park, Shanghai, 201203, People's Republic of China; Dong Yun, residing at No. 936, Zhangheng Road, Zhangjiang High-Tech Park, Shanghai, 201203, People's Republic of China; and Youjun Wu, residing at No. 936, Zhangheng Road, Zhangjiang High-Tech Park, Shanghai, 201203, People's Republic of China

by an Assignment dated: February 7, 2017; February 8, 2017; and February 7, 2017, respectively of an invention relating to and entitled:

A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF

We do hereby declare, for good and valuable consideration, received, sell, assign, and transfer unto:

WE, the ASSIGNEE:

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674 United States of America

an entity organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any revisue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all international Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number, Piling Date, and Filing Country

Priority Number	Filing Date	Filing Country	1
PCT/CN2015/075462	March 31 2015	W"T	Į

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, combining or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to insent here the corresponding Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do bereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that 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 Sworn by us at	Shanghai, China
this 224 day of Tg	. 20
	DOW ČHEMICAL (CHINA) INVESTMENT COMPANY LIMITED
CORP.	
SEAL	By: King Thank
	XIMING (NICK) ZHANG
	AUTHORIZED REPRESENTATIVE
	A S I I I I I I I I I I I I I I I I I I
	X X

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED

Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road

Zhangjiang Hi-Tech Park

Shanghai 201203

People's Republic of China

hereby accept the ASSIGNMENT which is dated: February 7, 2017; February 8, 2017; and February 7, 2017, respectively

From, the ASSIGNORS: Shiling Zhang, residing at No. 936, Zhangheng Road, Zhangjiang Hi-Tech Park, Shanghai, 201203, People's Republic of China; Dong Yun, residing at No. 936, Zhangheng Road, Zhangjiang High-Tech Park, Shanghai, 201203, People's Republic of China; and Youjun Wu, residing at No. 936, Zhangheng Road, Zhangjiang High-Tech Park, Shanghai, 201203, People's Republic of China

of the invention entitled:

A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF

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 Shanghai, (China
this 234 day of	<u>Federalasea</u> , 20 <u>I</u>
	DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED
CORP.	× .
SEAL	
	By War to Landing
	XIMING (NICK) ZHANG
	Authorized Representative

ASSIGNMENT CONTRACT

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with No. PCT/CN2015/075462 entitled A BINDER COMPOSITION AND A PAINT
FORMULATION MADE THEREOF filed by the assignor on March 31.
2015 are herein assigned to <u>UCAR Engalsion Systems</u> FZE . This
Assignment Contract is hereby concluded.
Assignor I (Product name) DOW GLOBAL TECHNOLOGIES LLC
Assignor or Representative (Systemer) Low W. Zow) Date February 6, 2017
Address 2040 Dow Center, Midland, Michigan 48674 US
Assigner 2 (Primed name) ROHM AND HAAS COMPANY
Assignor or Representative (Suprature) Date February 7, 2017 Descript P. Friedry, Assistant Secretary Address: 100 Independence Mail Wart 7th Floor, Philippleholis, RA 10106 US
Address 100 Independence Mall West, 7th Floor, Philadelphia, PA 19106 US
Assignee (Printed name) UCAR Emulsion Systems FZE
Assignee or Representative (Sepanure) Date Date
Address PA Bax 16017 John Ali Erna Zana Pulmi United Arch Emirates

P.O. Box 16943, Jebel Ali Free Zone, Dubai, United Arab Emirates

Address

ASSIGNMENT CONTRACT

rarvai rights and interests (including priority right) relating to PC 1 application
with No. PCT/CN2015/075462 entitled A BINDER COMPOSITION AND A PAINT
FORMULATION MADE THEREOF filed by the assignor onMarch 31,
2015 are herein assigned to <u>UCAR Emulsion Systems FZE</u> . This
Assignment Contract is hereby concluded.
Assigner I (Printed matter) DOW GLOBAL TECHNOLOGIES LLC
Assignor or Representative (Signature) Date
Address 2040 Dow Center, Midland, Michigan 48674 US
Assignor 2 (Printed name) ROHM AND HAAS COMPANY
Assimor or Representative communication of Bare
Assignor or Representative (Supurbure) Date Date
Address 100 Independence Mall West, 7th Floor, Philadelphia, PA 19106 US
Assignce (Primed name) UCAR Emulsion Systems FZE
Assignee or Representative (Segnature) 10 July Date Date
Address P.O. Box 16943, Johel Ali Free Zone, Duhai, United Arab Emirates 77

RECORDED: 10/29/2019