# 503706568 02/24/2016 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:			NEW ASSIGNMENT		
NATURE OF CONVEYANCE:			ASSIGNMENT		
CONVEYING PARTY DA	٩ΤΑ				
			Name		 Execution Date
JOSE FERREIRA					02/24/2016
YONGLI XU					 02/23/2016
RECEIVING PARTY DA	ТА				
Name:	Intermo	olecula	ar, Inc.		
Street Address:	3011 N	I. First	t Street		
City:	San Jo	se			
State/Country:	CALIF	ORNI	Ą		
Postal Code:	95134				
Name:	GUAR	DIAN	INDUSTRIES CORP.		
Street Address:	2300 HARMON ROAD				
City:	AUBU	RN HI	LLS		
State/Country:	MICHIGAN				
Postal Code:	48326				
PROPERTY NUMBERS Property Type	Total: 1		Number		
Application Number:		1414			
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			e-mail address first; if tha hat is unsuccessful, it will		
Phone:	noviuei		825533	De Sem	ian.
			nts@intermolecular.com		
			RMOLECULAR, INC.		
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Address Line 4:			JOSE, CALIFORNIA 95134	ł	
ATTORNEY DOCKET NU	JMBER:		IM0872_US		
NAME OF SUBMITTER:			MANU KASHYAP		
SIGNATURE:			/Manu Kashyap/		

02/24/2016

DATE SIGNED:

Γ	Total Attachments: 4
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	source=2016_02_23_IM0872_US_AST_Xu_Yongli#page1.tif
	source=2016_02_23_IM0872_US_AST_Xu_Yongli#page2.tif

## ASSIGNMENT OF PATENT APPLICATION

Whereas we the undersigned inventors have invented certain new and useful improvements as set forth in the patent application entitled:

### SYSTEMS, METHODS, AND APPARATUS FOR PRODUCTION COATINGS OF LOW-EMISSIVITY GLASS

(Atty. Docket No. IM0872\_US) for which we have executed an application for a United States Letters Patent filed on December 31, 2013 having the application number 14/144,828

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the undersigned inventors hereby:

1) Sell, assign and transfer to Intermolecular, Inc., a Delaware corporation having a place of business at 3011 N. First Street, San Jose, California 95134 U.S. and Guardian Industries Corp., having a place of business at 2300 Harmon Road, Auburn Hills, Michigan 48326 U.S., (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.

2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.

3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.

4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.

5) Warrant and represent that we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the dates indicated beside our signatures.

1)	Signature: Typed Name:	GUOWEN DING	Date:	
2)	Signature: Typed Name:	BRENT BOYCE	Date:	
3)	Signature: Typed Name:	JEREMY CHENG	Date:	

Attorney Docket No. IM0872\_US

PATENT REEL: 037811 FRAME: 0945

4)	Signature:		Date:	
	Typed Name:	GUIZHEN ZHANG		
5)	Signature: Typed Name:	MUHAMMAD IMRAN	Date:	
6)	Signature: Typed Name:	MINH HUU LE	Date:	
7)	Signature: Typed Name:	DANIEL SCHWEIGERT	Date:	
8)	Signature: Typed Name:	YONGLI XU	Daie:	<del></del> .
9)	Signature: Typed Name:	JOSE FERREIRA	Date: <u>24/02/</u> -	16
10)	Signature: Typed Name:	YU WANG	Date:	

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3)	Signature: Typed Name:	JEREMY CHENG	Date:	

Attorney Docket No. IM0872\_US

PATENT REEL: 037811 FRAME: 0947

4)	Signature:		Date:	
	Typed Name:	GUIZHEN ZHANG		
5)	Signature: Typed Name:	MUHAMMAD IMRAN	Date:	
6)	Signature: Typed Name:	MINH HUU LE	Date:	
7)	Signature: Typed Name:	DANIEL SCHWEIGERT	Date:	
8)	Signature: Typed Name:	<u>Zanang Ir</u> Ju vongli xu	Date:	2/23/2016
9)	Signature: Typed Name:	JOSE FERREIRA	Date:	
10)	Signature: Typed Name:	YU WANG	Date:	

Attorney Docket No. IM0872\_US

RECORDED: 02/24/2016