### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JINBO LI	08/19/2013
JIE ZHOU	08/26/2013
RUI PAN	08/28/2013
JIAYUN ZHU	08/19/2013
QISHENG PAN	08/15/2013
XIANFENG JI	08/15/2013
SUSANNAH C. CLEAR	08/19/2013
GREGORY A. SHIPP	08/07/2013
YINGYU WANG	08/15/2013

#### **RECEIVING PARTY DATA**

Name:	3M INNOVATIVE PROPERTIES COMPANY
Street Address:	3M CENTER
Internal Address:	PO BOX 33427
City:	SAINT PAUL
State/Country:	MINNESOTA
Postal Code:	55133-3427

#### PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	13985604
PCT Number:	US1224335

# **CORRESPONDENCE DATA**

502485924

Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 651-733-1500
Email: lekraft@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

PATENT

REEL: 031151 FRAME: 0818

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Address Line 1: 3M CENTER Address Line 2: PO BOX 33427 Address Line 4: SAINT PAUL,	7 MINNESOTA 55133-3427
ATTORNEY DOCKET NUMBER:	66865US009
NAME OF SUBMITTER:	Lynnda Kraft
Signature:	/Lynnda Kraft/
Date:	09/06/2013
Total Attachments: 12 source=Assignment_66865US009#page1.tif source=Assignment_66865US009#page2.tif source=Assignment_66865US009#page3.tif source=Assignment_66865US009#page4.tif source=Assignment_66865US009#page5.tif source=Assignment_66865US009#page6.tif source=Assignment_66865US009#page7.tif source=Assignment_66865US009#page8.tif source=Assignment_66865US009#page9.tif source=Assignment_66865US009#page9.tif source=Assignment_66865US009#page10.tif source=Assignment_66865US009#page11.tif	

PATENT REEL: 031151 FRAME: 0819

Case No.: 66865US009

#### **ASSIGNMENT OF APPLICATION**

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	ADHESIVE TAPE AND SOLAR ASSEMBLY AND ARTICLE MADE THEREOF
	for which an application for a United States Patent is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. , was filed on ;
$\boxtimes$	which application is identified as PCT International Patent Application No.

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent. reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as i/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

Assignment 3M 1607575v1 Page 1 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Case No.: 668651/8000

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Given Name (first and middle [if any]): Jinbo	Family Name or Surname		
Inventor's Signature:	Date:		
Jinbo Li	19,08,2013		
Residence: Shanghai, China	Country: China		
Given Name (first and middle [if any]): Jie	Family Name or Surname:		
Inventor's Signature:	Date:	Date:	
Residence: Shanghai, China	Country: China	Citizenship: China	
		<u> </u>	
Given Name (first and middle [if any]): Rui	Family Name or Surname:		
inventor's Signature:	Date:		
Residence: Hangzhou, China	Country: China	Citizenship: China	
1,21,34,1			
Given Name (first and middle [if any]): Jiayun	Family Name	Family Name or Surname:	
Inventor's Signature:	Date:	Date:	
Residence:	Country:	Citizenship:	*********
Shanghai, China	China	China	
Given Name (first and middle [if any]): QiSheng	Family Name or Surname:		
Inventor's Signature,	Date:		
Residence: Shanghai, China	Country: China	Cilizenship: China	<u> </u>
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Assignment 3M 1607575v1

Page 2 of 3 3M tonovative Properties Company, P.O. Sox 33427, St. Paul, MN 55133-3427.

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Given Name (first and middle [if any]): Jinbo	Family Name or Surname:		
Jinoo Inventor's Signature:	Date:		
myorida a signatura.			
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	
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Given Name (first and middle [if any]):	Family Name or	Surname:	
Jie	Zhou		
Inventor's Signature:	Date:		
Jie Zhou	Aug 21	1, 2013	
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	
Given Name (first and middle [if any]):	Family Name or Surname:		
Rui	Pan		
Inventor's Signature:	Date:		
Pui Pan	Aug. 28, 2013 Country: Citizenship:		
Residence:			
Hangzhou, China	China	China China	
Given Name (first and middle [if any]):	Family Name of	or Surname:	
Jiayun	Zhu		
Inventor's Signature:	Date:	Date:	
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	
Given Name (first and middle [if any]):	Family Name or	Surname::	
QiSheng	Pan		
Inventor's Signature:	Date:	Date:	
Residence:	Country:	Citizenship	
Shanghai, China	China	China	

Assignment

Case No.: 6686503009

3M 1607575v1

Page 2 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Given Name (first and middle [if any]): Jimbo	Li		
Inventor's Signature:	Date:		
arection's Orginature.	0.000		
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	
Given Name (first and middle [if any]):	Family Name or Surn	ama.	
Jie	Zhou	area.	
Inventor's Signature:	Date:		
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Residence:	Country:	Citizenship:	
Shanghai, China	China	China	
Given Name (first and middle [if any]):	Family Name or Sum	ame:	
Rui	Pan		
Inventor's Signature:	Date:		
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Residence:	Country:	Citizenship:	
Hangzhou, China	China China		
Given Name (first and middle [if any]):	Family Name or Su	mana.	
Jiayun	Zhu	i i cano.	
Inventor's Signature:	Date:		
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Jayun 2hu	8-	1/. 2013	
Vesideline.	8 - 17 - 2015 Country:   Citizenship:		
Shanghai, China/	China	China	
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Given Name (first and middle [if any]):	Family Name or Surname:		
QiSheng	Pan		
Inventor's Signature:	Date:	3×63	
Oisheng Pan	8.13	. 2013	
Residence	Country:	Citizenship:	
Shanghai, China	China	China	
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Assignment

Case No.: 6686505009

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Page 2 of 3 3M innovative Preparties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Given Name (first and middle [if any]):		Family Name or Surname:		
Xianfeng	423	Ji		
Inventor's Signature	Date:			
Liantey Ji	Ay. 15/	Ay. /5/20/3 Country: Citizenship:		
Residence:	Country:	Citizenship:		
Beijing, China	China	China		
Given Name (first and middle [if any]):	Family Name or Su	mame:		
Susannah C.	Clear			
Inventor's Signature:	Date:			
Residence:	Country:	Citizenship:		
Hastings, Minnesota	United States	United States		
		<u> </u>		
Given Name (first and middle [if any]):	Family Name or Surname.			
Gregory A.	Shipp			
Inventor's Signature:	Date:			
Residence	Country:	Citizenship:		
Madison, Connecticut	United States	United States		
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Given Name (first and middle [if any]):	Family Name or Su	mane.		
Yingyu		Wang		
Inventor's Signature:	Date:	Date:		
		100000000		
Residence:	Country	Citizenship:		
Shanghai, China	China	China		

Assignment 3M 1607575v1 Page 3 of 3 3M Innovative Properties Company, P. O., Box 33427, St. Paul, MN 55133-3427

Given Name (first and middle [if any]):	Family Name or Surname:		
Xianfeng	Ji		
Inventor's Signature:	Date:		
		1 02:22	
Residence:	Country: China	Citizenship: China	
Beijing, China	Grima	Ushiia	
Given Name (first and middle [if any]):	Family Name or Sui	name:	
Susannah C.			
Inventor's Signature:	Date:		
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Residence:	Country:	Citizenship:	
Hastings, Minnesota	United States	United States	
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Given Name (first and middle [if any]):	Family Name or Surname:		
Gregory A.	Shipp		
Inventor's Signature:	Date		
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Residence:	Country:	Citizenship:	
Madison, Connecticut	United States	United States	
Given Name (first and middle [if any]):	Family Name or Sur	rname:	
Yingyu	Wang		
Inventor's Signature:	Date:		
*	170 000		
Vingue	Wang		
Residence:	Country:	Citizenship:	
Shanohai China	China	China	

Assignment 3M 1607575v1 Page 3 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

> PATENT REEL: 031151 FRAME: 0825

Case No.: 66865US009

### **ASSIGNMENT OF APPLICATION**

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated

below, have made an invention in

ADHESIVE TAPE AND SOLAR ASSEMBLY AND ARTICLE MADE THEREOF

for which an application for a United States Patent is being filed contemporaneously herewith;

for which an application for a United States Patent identified as U.S. Patent Application No., was filed on:

which application is identified as PCT International Patent Application No. PCT/US2012/024335; filed February 8, 2012;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made:

I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

Assignment 3M 1607575v1 Page 1 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-34

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Given Name (first and middle [if any]):  Jinbo	Family Name or Surname.		
Inventor's Signature:	Date:		
Sittorial Colgrands.	Date.		
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	
Given Name (first and middle [if any]):	Family Name or Surn	ame:	
Jie	Zhou		
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	
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Circa Mana (first and middle life on I)	Tradity Manager 12		
Given Name (first and middle [if any]): <b>Rui</b>	Family Name or Surname:  Pan		
Inventor's Signature:	Date:		
Residence:	Na. atau	T G/B-2-1-3-Ein	
Hangzhou, China	Country: China	Citizenship: China	
	·		
Given Name (first and middle [if any]):	Family Name or Su	mame:	
Jiayun	Zhu		
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	
Chan Nama Gent and middle 18 3	J. Com H. Marian	2012	
Given Name (first and middle [if any]):  QiSheng	Family Name or Surname:  Pan		
Inventor's Signature:	Date:		
Residence: Shanghai, China	Gountry: China	Citizenship:	
Oriangilai, Cilila	Umia	China	

Assignment

Page 2 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

3M 1607575v1

**PATENT REEL: 031151 FRAME: 0827** 

	***************************************		
Given Name (first and middle [if any]).	Family Name or Surname:		
Xianfeng	Ji		
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Beijing, China	China	China	
		3	
Given Name (first and middle [if any]):	Family Name or Surname:		
Susannah C.	Clear		
Inventor's Signature:	Date:		
Justinath (Clean	Ø1913		
Residence:	Country:	Citizenship:	
Hastings, Minnesota	United States	United States	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Given Name (first and middle [if any]):	Family Name or Surname:		
Gregory A.	Shipp		
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Madison, Connecticut	United States	United States	
		***************************************	
Given Name (first and middle [if any]):	Family Name or Surname:		
Yingyu	Wang		
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	

innovative Properties Company, P. U. Box 33427,

Case No.: 66865US009

# **ASSIGNMENT OF APPLICATION**

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

ADHESIVE TAPE AND SOLAR ASSEMBLY AND ARTICL	E MADE THEREOF
☐ for which an application for a United States Patent is being filed	I contemporaneously herewith;
for which an application for a United States Patent identified as was filed on ;	U.S. Patent Application No. ,
which application is identified as PCT International Patent Appli PCT/US2012/024335; filed February 8, 2012;	ication No.

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

Page 1 of 3
3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Given Name (first and middle [if any]):  Jinbo	Family Name or Surname:			
Inventor's Signature:	Date:			
Residence: Shanghai, China	Country: China	Citizenship: China		
u				
Given Name (first and middle [if any]):  Jie	Family Name or Surname: <b>Zhou</b>			
Inventor's Signature:	Date:			
Residence: Shanghai, China	Country: China	Citizenship: China		
Given Name (first and middle [if any]):  Rui	Family Name or Surname: Pan			
Inventor's Signature:	Date:			
Residence: Hangzhou, China	Country: China	Citizenship: China		
Given Name (first and middle [if any]): <b>Jiayun</b>	Family Name or Surname: <b>Zhu</b>			
Inventor's Signature:	Date:			
Residence: Shanghai, China	Country: China	Citizenship: China		
Given Name (first and middle [if any]): Family Name or Surname:				
QiSheng	Pan			
Inventor's Signature:	Date:			
Residence: Shanghai, China	Country: China	Citizenship: China		

Assignment

3M 1607575v1

Page 2 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Given Name (first and middle [if any]):  Xianfeng	Family Name or Surname: <b>Ji</b>		
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Beijing, China	China	China	
Given Name (first and middle [if any]):  Susannah C.	Family Name or Surname: Clear		
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Hastings, Minnesota	United States	United States	
	T= ". 11		
Given Name (first and middle [if any]): <b>Gregory A.</b>	Family Name or Surname: Shipp		
Inventor's Signature:	Date: August 7, 2013		
Residence:	Country:	Citizenship:	
Madison, Connecticut	United States	United States	
Given Name (first and middle [if any]):	Family Name or Surname:		
Yingyu	Wang		
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Shanghai, China	China	China	

Page 3 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427 Case No.: 66865US009 Assignment

> **PATENT REEL: 031151 FRAME: 0831**

**RECORDED: 09/06/2013**