## 502108102 10/26/2012

## PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### CONVEYING PARTY DATA

Name	Execution Date
Guy D. Joly	10/22/2012
Nathan E. Schultz	10/22/2012
Encai Hao	10/22/2012

#### RECEIVING PARTY DATA

Name:	3M Innovative Properties Company	
Street Address:	P.O. Box 33427	
City:	St. Paul	
State/Country:	MINNESOTA	
Postal Code:	55133-3427	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13661086

#### CORRESPONDENCE DATA

Fax Number: 6517363833

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

Phone: 651-733-1500

Email: cmwagner01@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: PO BOX 33427

Address Line 4: ST. PAUL, MINNESOTA 55133-3427

ATTORNEY DOCKET NUMBER:	65873US008	
NAME OF SUBMITTER:	Colleen M. Wagner	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

## Total Attachments: 3

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PATENT REEL: 029195 FRAME: 0630 ICH \$40,00 136610

## DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:	65873US008
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As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

		REFROM
The specification of	which:	
is attached he	reto;	
was filed on		
as United Stat	es Application No.	
is identified as	PCT International Application No.	
filed on		
The shove identifie	d application was made or authoriz	to he made hy me

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 5 years, or both.

In addition, 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 wholiy-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/curselves 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

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.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Legal Name of Inventor:  Guy D. Joly	
Inventor's Signature:	Date:
allowy J. July	10-23-3012
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Witness )	Withess

PATENT REEL: 029195 FRAME: 0631

## DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:	65873US008	 
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As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

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The	specification of wh	ich:				
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	was filed on as United States /	Application	No.			
	is identified as PC filed on	T Internatio	nal Application No.			

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

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 5 years, or both.

In addition, 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/curselves 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

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.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Legal Name of Inventor: Nathan E. Schultz	
Inventor's Signature:	Date: 10 - 27 - 2012
Witness Witness	Chylle Gazate. Witness

PATENT REEL: 029195 FRAME: 0632

# DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:	65873US008

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

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The specification of wh	iich:					
is attached hereto	P <sub>i</sub>					
was filed on as United States /	Application	No.				
is identified as PC filed on	T Internatio	nal Application No	3.			
The above-identified a	oplication w	as made or author	ized to be made	s by me.		
I hereby acknowledge fine or imprisonment of				eclaration is pu	nishable under 18	3 U.S.C. 1001 by
transfer and do hereb subsidiary of 3M CON successors and assign division or continuation invention made by me after the termination of any and all Letters P countries foreign theref countries in its own ne entitled under internation whole or in part upon the would have been by me	PANY, and s, the entire or made jo made to made and to onal convertion whole ne said inve	I a corporation of inght, title, and into or in part) of said intty with others (propert with 3M CO aminations, reissurations, reissurations, reissurations, claim any priority or in part), renew intion or improvement	Delaware, have ferest in and to deposite any subsequent and any subsequent and arrest or Letters Paterights for such otherwise), while all, reexaminations thereon, to	ring its principal the said invent in and to a such improvement of its existing one thereof, or foreign applicated have been to held and ended to the feld and ended the said and ended the said and ended the said inventor in the said and ended the said inventor in the said inventor	il office at Saint ion and application and application on the impropersion of the United States, or Inventors' (ations to which sor may be granter other or further	Paul, Minnesota, it on, and in and to an vernents in the said of within one year iaries), and in and to tes of America and Certificates in foreign uch applications and thereon or on any application based in
I/We do further agree without further conside I/we lawfully may, that secure its right, title, a Certificates in any and	ration any may be de and interest	urther applications semed necessary as aforesaid and	s, assignments, by said Compa	and documenany, its succes	ts, and to perforn sors, assigns, an	n such other acts as d nominees, fully to
We do hereby author granted upon any of the little, and interest therei	e said appli					
n witness whereof, I/w	e have sign	ed my/our name(s	) on the day and	d year set forth	below.	14 2014 1
Legal Name of Inventi Encal Hao	or:			mminumunumunum	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
inventor's Signature:		1 ~	Date:	······································	<del></del>	<del></del>
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**RECORDED: 10/26/2012** 

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