# 503167514 02/05/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3214129

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HOLGER HAUPTMANN	01/19/2015
ANDREAS HERRMANN	02/04/2015
BRANT U. KOLB	01/26/2015

### **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:	14418975
PCT Number:	US1329743

### **CORRESPONDENCE DATA**

Fax Number:

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.

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

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: 3M CENTER
Address Line 2: PO BOX 33427

Address Line 4: SAINT PAUL, MINNESOTA 55133-3427

ATTORNEY DOCKET NUMBER:	70031US004	
NAME OF SUBMITTER:	LYNNDA E. KRAFT	
SIGNATURE:	/Lynnda E. Kraft/	
DATE SIGNED:	02/05/2015	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT 503167514 REEL: 034898 FRAME: 0368

# **Total Attachments: 3**

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PATENT REEL: 034898 FRAME: 0369

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

Case No:

70031US004

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:

TRANSLUCENCY ENHANCING SOLUTION FOR ZIRCONIA CERAMICS		
The specification of which:		
is attached hereto;		
was filed on as United States Application No		
is identified as PCT International Application No. filed on 8 MARCH 2013	PCT/US2013/029743	
The above-identified application was made or authorized to	be made by me.	
I hereby acknowledge that any willful false statement made fine or imprisonment of not more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by	
In addition, for good and valuable consideration, receipt of transfer and do hereby assign and transfer unto the 3M INI subsidiary of 3M COMPANY, and a corporation of Delawar successors and assigns, the entire right, title, and interest i any division or continuation (in whole or in part) of said app said invention made by me or made jointly with others (prover year after the termination of, my employment with 3M COM in and to any and all Letters Patent, reexaminations, reissurand countries foreign thereto (including the right to apply to foreign countries in its own name and to claim any priority of applications are entitled under international conventions, the thereon or on any divisional, continuation (in whole or in part application based in whole or in part upon the said invention fully and exclusively as they would have been by me had the	NOVATIVE PROPERTIES COMPANY, a wholly-owned e, having its principal office at Saint Paul, Minnesota, its in and to the said invention and application, and in and to dication, and in and to any and all improvements in the wided any such improvement is made during, or within one IPANY and any of its existing or future subsidiaries), and es, or extensions thereof, of the United States of America or Letters Patent, Utility Models, or Inventors' Certificates in rights for such foreign applications to which such eaties, or otherwise), which have been or may be granted ort), renewal, reexamination, reissue, or other or further in or improvements thereon, to be held and enjoyed as	
I do further agree for myself and for my 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 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 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.		
Legal Name of Inventor:		
HOLGER HAUPTMANN		
Inventor's Signature:	Date:	
U1 (10-4-4)	13 Tours 2 - 15-	

PATENT REEL: 034898 FRAME: 0370

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

Case No:

70031US004

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TRAN	SLUCENCY ENHANCING SOL	UTION FOR ZIRCONIA CERAMICS
The specification of w	hich;	
is attached heret	.g;	
was filed on as United States	Application No.	
is identified as P	CT International Application No. [ 8 MARCH 2013	PCT/US2013/029743
The above-identified a	application was made or authorized to	be made by me.
I hereby acknowledge fine or imprisonment	that any willful false statement made of not more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by
transfer and do hereb subsidiary of 3M CON successors and assig any division or continusaid invention made by year after the termina in and to any and all L and countries foreign foreign countries in its applications are entitle thereon or on any divisional polication based in we fully and exclusively a	y assign and transfer unto the 3M INN IPANY, and a corporation of Delaware ns, the entire right, title, and interest in Jation (in whole or in part) of said apply me or made jointly with others (provision of, my employment with 3M COM letters Patent, reexaminations, reissue thereto (including the right to apply for own name and to claim any priority right under international conventions, tresional, continuation (in whole or in partylole or in	which is acknowledged, I have agreed to assign and IOVATIVE PROPERTIES COMPANY, a wholly-owned a, having its principal office at Saint Paul, Minnesota, its n and to the said invention and application, and in and to lication, and in and to any and all improvements in the vided any such improvement is made during, or within one PANY and any of its existing or future subsidiaries), and as, or extensions thereof, of the United States of America Letters Patent, Utility Models, or Inventors' Certificates in ghts for such foreign applications to which such eaties, or otherwise), which have been or may be granted it), renewal, reexamination, reissue, or other or further in or improvements thereon, to be held and enjoyed as its assignment and transfer not been made:
consideration any furt may, that may be dee	her applications, assignments, and do med necessary by said Company, its t as aforesaid and to obtain or maintai	d administrators, to execute and deliver without further ocuments, and to perform such other acts as I lawfully successors, assigns, and nominees, fully to secure its in Letters Patent, Utility Models, or Inventors' Certificates
	ne said applications, to said 3M innover	ents to issue any and all Letters Patent which may be ative Properties Company, as the assignee of the entire
Legal Name of inver		
ANDREAS HERI		
Inventor's Signature:		Date.
1/ lem	waau	4.2.15

PATENT REEL: 034898 FRAME: 0371

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

Case No:

70031US004

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:

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NSLUCENCY ENHANCING SOL	LUTION FOR ZIRCONIA CERAMICS
The specification of	which:	
is attached her	refo;	
was filed on as United State	es Application No.	
is identified as filed on	PCT International Application No. 8 MARCH 2013	PCT/US2013/029743
The above-identified	d application was made or authorized to	be made by me.
	ge that any willful false statement made it of not more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by
subsidiary of 3M CC successors and assany division or continuous aid invention made year after the termining and to any and aid and countries foreign countries in applications are entitle thereon or on any displication based in	OMPANY, and a corporation of Delawar signs, the entire right, title, and interest in inuation (in whole or in part) of said app by me or made jointly with others (pro- nation of, my employment with 3M CON Il Letters Patent, reexaminations, reissur thereto (including the right to apply for its own name and to claim any priority in its whole or in part upon the said inventions.	NOVATIVE PROPERTIES COMPANY, a wholly-owned te, having its principal office at Saint Paul, Minnesota, its in and to the said invention and application, and in and to dication, and in and to any and all improvements in the wided any such improvement is made during, or within one IPANY and any of its existing or future subsidiaries), and es, or extensions thereof, of the United States of America or Letters Patient, Utility Models, or Inventors' Certificates in rights for such foreign applications to which such eaties, or otherwise), which have been or may be granted int), renewal, reexamination, reissue, or other or further in or improvements thereon, to be held and enjoyed as his assignment and transfer not been made;
consideration any ful may, that may be de-	urther applications, assignments, and de eemed necessary by said Company, its est as aforesaid and to obtain or mainta	nd administrators, to execute and deliver without further ocuments, and to perform such other acts as I lawfully successors, assigns, and nominees, fully to secure its in Letters Patent, Utility Models, or Inventors' Certificates
	f the said applications, to said 3M Innov	tents to issue any and all Letters Patent which may be rative Properties Company, as the assignee of the entire
Legal Name of inv	eutor.	
BRANT U. KO	L8	
Inventor's Signatu	re:	Date:
	164	1/20/15

PATENT REEL: 034898 FRAME: 0372

**RECORDED: 02/05/2015**