503934571 07/27/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3981225

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHINGO KAWASAKI	07/27/2016
HITOSHI ONO	07/26/2016

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:	29572354			

CORRESPONDENCE DATA

Fax Number: (651)736-3833

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: hhfroelke1@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

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

ATTORNEY DOCKET NUMBER:	78646US002			
NAME OF SUBMITTER:	HYLIS H. FROELKE			
SIGNATURE:	/Hylis H. Froelke/			
DATE SIGNED:	07/27/2016			
	This document serves as an Oath/Declaration (37 CFR 1.63).			

Total Attachments: 2

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PATENT 503934571 REEL: 039274 FRAME: 0252

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

Legal Name of Inventor: Shingo KAWASAKI Inventor's Signature:

Sing- Papasak

Case No:

78646US002

	HANDLE	
The specification of v	which:	
is attached here	eto;	
was filed on as United States	es Application No.	
is identified as F	PCT International Application No.	
The above-identified	d application was made or authorized to be made by me.	
I hereby acknowledgi fine or imprisonment	ge that any willful false statement made in this declaration is punishable under 18 U.S t of not more than 5 years, or both.	S.C. 1001 by
and do hereby assign 3M COMPANY, and assigns, the entire rig continuation (in whole by me or made jointly termination of, my en all Letters Patent, recthereto (including the own name and to clainternational convent continuation (in whole part upon the said in have been by me har	and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owner is a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its suight, title, and interest in and to the said invention and application, and in and to any object or in part) of said application, and in and to any and all improvements in the said in the view of the provided any such improvement is made during, or within one year after motoyment with 3M COMPANY and any of its existing or future subsidiaries), and in the examinations, reissues, or extensions thereof, of the United States of America and of the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign of aim any priority rights for such foreign applications to which such applications are entitions, treaties, or otherwise), which have been or may be granted thereon or on any object in part), renewal, reexamination, reissue, or other or further application based in the provements thereon, to be held and enjoyed as fully and exclusively as and this assignment and transfer not been made;	d subsidiary of accessors and division or nvention made ter the and to any and countries foreign countries in its titled under divisional, a whole or in a they would
consideration any fur	or myself and for my heirs, executors, and administrators, to execute and deliver without the applications, assignments, and documents, and to perform such other acts as less and the company, its successors, assigns, and nominees, fully to secure esaid and to obtain or maintain Letters Patent, Utility Models, or inventors' Certificate	I lawfully may, e its right, title,
I do hereby authorize granted upon any of title, and interest the	te and request the Commissioner of Patents to issue any and all Letters Patent which If the said applications, to said 3M Innovative Properties Company, as the assignee of Prein	nmay be If the entire righ

Date:

July 201, 2016

PATENT REEL: 039274 FRAME: 0253

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

Case No:

78646US002

As a below nar	ned inventor,	I believe I a	ım an origin	al inventor	or an	original	joint inventor	of a claimed	invention in	the
application and							•			

As a holow named inv	enter I halfava I has an adalast to	Contain or an Adalma (a) thought a see a delimed incention in the
	ich a patent is sought on the inven	ventor or an original joint inventor of a claimed invention in the tion entitled:
	НА	NDLE
The specification of wh	nich:	
is attached hereto) ,	
was filed on		
as United States	Application No.	
is identified as PC	CT International Application No.	
The above-identified a	pplication was made or authorized	I to be made by me.
In addition, for good ar and do hereby assign and assigns, the entire right continuation (in whole by me or made jointly termination of, my empall Letters Patent, reex thereto (including the rown name and to clain international convention continuation (in whole part upon the said invehave been by me had	and transfer unto the 3M INNOVAl corporation of Delaware, having it at, title, and interest in and to the sor in part) of said application, and with others (provided any such impoloyment with 3M COMPANY and caminations, reissues, or extensionight to apply for Letters Patent, Ut an any priority rights for such foreigh one, treaties, or otherwise), which for in part), renewal, reexaminationention or improvements thereon, to this assignment and transfer not be	of which is acknowledged, I have agreed to assign and transfer TIVE PROPERTIES COMPANY, a wholly-owned subsidiary of is principal office at Saint Paul, Minnesota, its successors and aid invention and application, and in and to any division or in and to any and all improvements in the said invention made provement is made during, or within one year after the any of its existing or future subsidiaries), and in and to any and insist thereof, of the United States of America and countries foreign lifty Models, or Inventors' Certificates in foreign countries in its in applications to which such applications are entitled undernave been or may be granted thereon or on any divisional, in, reissue, or other or further application based in whole or in the behild and enjoyed as fully and exclusively as they would been made: and administrators, to execute and deliver without further
consideration any furth	ner applications, assignments, and necessary by said Company, its su	I documents, and to perform such other acts as I lawfully may, occessors, assigns, and nominees, fully to secure its right, title, is Patent, Utility Models, or Inventors' Certificates in any and all
granted upon any of the title, and interest there	ne said applications, to said 3M Inr in.	Patents to issue any and all Letters Patent which may be novative Properties Company, as the assignee of the entire right,
Legal Name of inven	tor.	
Hitoshi ONO	······	
Inventor's Signature:		Date:
Hitos	hi Ono	July 26, 2016

PATENT REEL: 039274 FRAME: 0254

RECORDED: 07/27/2016