503109784 12/19/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3156393

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KENTA WASAI	11/30/2014
RENTARO OHSAWA	12/03/2014
TOMOYASU OIKE	12/01/2014

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:	14409747	

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: ttcollier@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:	69992US004	
NAME OF SUBMITTER: THERESA T. COLLIER		
SIGNATURE:	/Theresa T. Collier/	
DATE SIGNED:	12/19/2014	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 3

source=Decl-Assn All signed 69992US004#page1.tif source=Decl-Assn All signed 69992US004#page2.tif source=Decl-Assn_All_signed_69992US004#page3.tif

PATENT REEL: 034557 FRAME: 0825 503109784

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

Case No:

69992US004

	WIR	E CONNECTOR	
The specification of w	hich:		
is attached heret	o;		
was filed on as United States	Application No.		
is identified as Po	CT International Application N March 7, 2013	lo.	PCT/US2013/029495
The above-identified a	application was made or author	orized to be made by r	ne.
	that any willful false stateme of not more than 5 years, or be		ation is punishable under 18 U.S.C. 1001 by
assigns, the entire rigicontinuation (in whole by me or made jointly termination of, my em all Letters Patent, reexthereto (including the own name and to clair international conventicontinuation (in whole part upon the said invenae been by me had	nt, title, and interest in and to or in part) of said application with others (provided any suc ployment with 3M COMPANY xaminations, reissues, or exteright to apply for Letters Patern any priority rights for such fons, treaties, or otherwise), we or in part), renewal, reexamination or improvements there this assignment and transfer	the said invention and, and in and to any and in and to any and in improvement is mad and any of its existing ensions thereof, of the nt, Utility Models, or Inforeign applications to thich have been or manation, reissue, or other, to be held and enjoy not been made;	at Saint Paul, Minnesota, its successors and application, and in and to any division or dall improvements in the said invention made de during, or within one year after the g or future subsidiaries), and in and to any and United States of America and countries foreignentors' Certificates in foreign countries in its which such applications are entitled under y be granted thereon or on any divisional, er or further application based in whole or in oyed as fully and exclusively as they would
consideration any furt that may be deemed r	her applications, assignments necessary by said Company,	s, and documents, and its successors, assign	ors, to execute and deliver without further I to perform such other acts as I lawfully may, s, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and a
granted upon any of the title, and interest there	ne said applications, to said 3 ein.		any and all Letters Patent which may be es Company, as the assignee of the entire righ
Legal Name of Inver	itor:	:	
Inventor's Signature:		Date:	
	ta Wasal		ember 30, 2014

PATENT

REEL: 034557 FRAME: 0826

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

Case No:

69992US004

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:

application and for wh	ich a pa	tent is sought on the ir	ivenuon enuuea.	
		WIRE	CONNECTOR	
The specification of w	hich:			
is attached heret	ο;			
was filed on as United States	Applicat	tion No.		
☑ is identified as D	CT Inter	national Application No	,	PCT/US2013/029495
filed on		h 7, 2013	<i>.</i> .	1 01/002013/020400
The above-identified a	pplication	on was made or author	rized to be made by	me.
I hereby acknowledge fine or imprisonment of	that any of not mo	y willful false statemen ore than 5 years, or bo	t made in this decla th.	ration is punishable under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and a assigns, the entire right continuation (in whole by me or made jointly termination of, my empall Letters Patent, reexthereto (including the lown name and to clair international convention continuation (in whole	and tran corpora or in par with other ploymen camination ight to a many propers, tread or in par ention or	nsfer unto the 3M INNO ation of Delaware, havi and interest in and to the art) of said application, ers (provided any such at with 3M COMPANY ons, reissues, or exter apply for Letters Patent tiority rights for such fo aties, or otherwise), what in improvements thereo	DVATIVE PROPER ng its principal office ne said invention ar and in and to any a improvement is mand any of its existing asions thereof, of the t, Utility Models, or late reign applications to ich have been or mand ation, reissue, or otto n, to be held and er	nowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and ad application, and in and to any division or and all improvements in the said invention made ade during, or within one year after the age or future subsidiaries), and in and to any and a United States of America and countries foreign Inventors' Certificates in foreign countries in its to which such applications are entitled under any be granted thereon or on any divisional, aner or further application based in whole or in anjoyed as fully and exclusively as they would
consideration any furth that may be deemed r	her appli necessar	ications, assignments, ry by said Company, it	and documents, an s successors, assig	tors, to execute and deliver without further id to perform such other acts as I lawfully may, ns, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all
	ne said a			e any and all Letters Patent which may be ties Company, as the assignee of the entire right
Legal Name of Inven	tor:			
Rentaro Ohsawa	ı			
Inventor's Signature:			Date:	
Rente	Zh	Obsont.	be	comber 3. 2014

PATENT

REEL: 034557 FRAME: 0827

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

Case No:

69992US004

	WIRE CO	ONNECTOR			
The specification of wh	nich:				
is attached hereto	o;				
was filed on					
as United States	Application No.				
is identified as PC	CT International Application No.		PCT/US	32013/02	9495
filed on	March 7, 2013				
The above-identified a	pplication was made or authorized	to be made by	me.		
and do hereby assign a 3M COMPANY, and a assigns, the entire righ continuation (in whole by me or made jointly termination of, my empall Letters Patent, reex thereto (including the rown name and to claim international conventio continuation (in whole part upon the said investign.)	nd valuable consideration, receipter and transfer unto the 3M INNOVAl corporation of Delaware, having it t, title, and interest in and to the stor in part) of said application, and with others (provided any such impoloyment with 3M COMPANY and aminations, reissues, or extensionight to apply for Letters Patent, Utin any priority rights for such foreigns, treaties, or otherwise), which hor in part), renewal, reexaminations ention or improvements thereon, to this assignment and transfer not be	TIVE PROPERT s principal office aid invention and in and to any an provement is ma any of its existin is thereof, of the dity Models, or Ir applications to ave been or ma by reissue, or other be held and enj	IES COMF at Saint P d application d all improde during, g or future United Stanventors' C which suc y be granter or further	PANY, a value, Minnon, and in overments or within subsidial ates of Arcertificates of the recent applicate applicate applicate applicate.	wholly-owned subsidiary onesota, its successors and and to any division or in the said invention mad one year after the ries), and in and to any armerica and countries foreign countries in its tions are entitled under on or on any divisional, tion based in whole or in
consideration any furth	nyself and for my heirs, executors, ler applications, assignments, and ecessary by said Company, its su aid and to obtain or maintain Letter	documents, and ccessors, assign	d to performus, and nor	n such ot ninees, fl	ther acts as I lawfully may ully to secure its right, title
granted upon any of th title, and interest there		Patents to issue ovative Properti	any and al es Compa	l Letters I ny, as the	Patent which may be assignee of the entire rig
Legal Name of Invent Tomoyasu Oike	or:				
Inventor's Signature:		Date:			
	0 /		1	1	2.1//
Jamoua S	u Oike	1 Decen	nber	Ι,	2017

PATENT REEL: 034557 FRAME: 0828

RECORDED: 12/19/2014