## 504952134 06/08/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4998881 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
EVAN KOON LUN YUUJI HAJIME	04/26/2018
JASON D. CLAPPER	04/18/2018
KURT J. HALVERSON	04/27/2018
MYUNGCHAN KANG	04/17/2018

### **RECEIVING PARTY DATA**

Name:	3M INNOVATIVE PROPERTIES COMPANY	
Street Address:	P.O. BOX 33427	
City:	SAINT PAUL	
State/Country:	MINNESOTA	
Postal Code:	55133-3427	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16060823

## **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:** kholmberg@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:	76921US006	
NAME OF SUBMITTER:	KELLY J. HOLMBERG	
SIGNATURE:	/Kelly J. Holmberg/	
DATE SIGNED:	06/08/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 4** 

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PATENT 504952134 REEL: 046031 FRAME: 0925

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Case No:

76921US006

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:

		DIMENSIONAL ARTICLE AND ME	
The	specification of whi		
	is attached hereto		
	was filed on as United States A	\pplication No.	
$\boxtimes$	is identified as PC filed on	T International Application No.  December 20, 2016	PCT/US2016/067710
The	above-identified ac	oplication was made or authorized to be ma	de by me.
		that any willful false statement made in this not more than 5 years, or both.	declaration is punishable under 18 U.S.C. 1001 by
3M ass con by terr all the cor par have	COMPANY, and a contigens, the entire right of the continuation (in whole come or made jointly vertically and the right of the continuation of the continuation (in whole continuation the said inverse been by me had to come the continuation of the	corporation of Delaware, having its principall, title, and interest in and to the said invention in part) of said application, and in and to with others (provided any such improvement alloyment with 3M COMPANY and any of its aminations, reissues, or extensions thereofight to apply for Letters Patent, Utility Moden any priority rights for such foreign applications, treaties, or otherwise), which have been or in part), renewal, reexamination, reissue, antion or improvements thereon, to be held at this assignment and transfer not been made	
cor tha and	nsideration any furth It may be deemed n	er applications, assignments, and documer ecessary by said Company, its successors,	inistrators, to execute and deliver without further nts, and to perform such other acts as I lawfully may, assigns, and nominees, fully to secure its right, title, Utility Models, or Inventors' Certificates in any and all
gra	o hereby authorize a anted upon any of th e, and interest there	e said applications, to said 3M Innovative F	rissue any and all Letters Patent which may be troperties Company, as the assignee of the entire right
L	egal Name of Invent	POC:	
8	van Koon Lun '		usbury.
	oventor's Signature:	La Ven The	4/26/18

Case No:

76921US006

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:

abhingini and in ai	non a patent is sought on the invention	n annua.
THREE	-DIMENSIONAL ARTICLE AN	D METHOD OF MAKING THE SAME
The specification of w	vhich:	
is attached here	to;	
was filed on as United States	; Application No.	
is identified as P filed on	CT International Application No. December 20, 2016	PCT/US2016/067710
The above-identified	application was made or authorized to	be made by me.
fine or imprisonment and dition, for good a and do hereby assign 3M COMPANY, and a assigns, the entire rigontinuation (in whole by me or made jointly termination of, my en all Letters Patent, resthereto (including the own name and to claid international conventicontinuation (in whole part upon the said in and to cart upon the said in a said in	of not more than 5 years, or both.  and valuable consideration, receipt of a and transfer unto the 3M INNOVATIVE corporation of Delaware, having its point, title, and interest in and to the said or in part) of said application, and in with others (provided any such impropologyment with 3M COMPANY and an examinations, reissues, or extensions to right to apply for Letters Patent, Utility im any priority rights for such foreign a sor in part), renewal, reexamination, recommendation, recommendation, recommendation, recommendation.	which is acknowledged, I have agreed to assign and transfer VE PROPERTIES COMPANY, a wholly-owned subsidiary of principal office at Saint Paul, Minnesota, its successors and I invention and application, and in and to any division or and to any and all improvements in the said invention made overment is made during, or within one year after the made overment is made during, or within one year after the made overment is made during, or within one year after the made of the United States of America and countries foreign y Models, or Inventors' Certificates in foreign countries in its applications to which such applications are entitled under we been or may be granted thereon or on any divisional, reissue, or other or further application based in whole or in the held and enjoyed as fully and exclusively as they would an made;
consideration any fur that may be deemed	ther applications, assignments, and do necessary by said Company, its succ	nd administrators, to execute and deliver without further ocuments, and to perform such other acts as I lawfully may, essors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or Inventors' Certificates in any and all
	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 right
Legal Name of Inve	antor:	
Jason D. Clapp	er	
inventor's Signature	9	Date:

Case No:

76921US006

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:

Makindarahan dana merinan	and baron to oppdit on an unounas	* MUNIONA
THREE-	DIMENSIONAL ARTICLE ANI	D METHOD OF MAKING THE SAME
The specification of wh	ich:	
is attached hereto	Å	
was filed on as United States /	Application No.	
is identified as PC filed on	T International Application No.  December 20, 2016	PCT/US2016/067710
The above-identified a	oplication was made or authorized to	be made by me.
In addition, for good are and do hereby assign a 3M COMPANY, and a assigns, the entire righ continuation (in whole termination of, my empall Letters Patent, reex thereto (including the rown name and to claim international conventio continuation (in whole part upon the said inventage of the part upon the	and transfer unto the 3M INNOVATIVe corporation of Delaware, having its pert, title, and interest in and to the said or in part) of said application, and in with others (provided any such improving ment with 3M COMPANY and any aminations, reissues, or extensions tight to apply for Letters Patent, Utility in any priority rights for such foreign ans, treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not bee	
consideration any furth	ier applications, assignments, and do ecessary by said Company, its succe	nd administrators, to execute and deliver without further ocuments, and to perform such other acts as I lawfully may, essors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize a granted upon any of th title, and interest there	e 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 right
Legal Name of Inven		
Kurt J. Halverso		the state of the s
Inventor's Signature:		Date:
7/	HAL	412712018

Case No:

76921US006

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 wi		2.10.45% (XXXV X X 0.0%	60 CO 133713 6113 60 C (1300 NO) 130700
	is attached hereto			
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	was filed on as United States	Application No.		
Ø	is identified as Pt filed on	OT International Application No. December 20, 2016		PCT/US2016/067710
The	above-identified a	pplication was made or authorize	ed to be made by	me.
		that any willful false statement n if not more than 5 years, or both.		ration is punishable under 18 U.S.C. 1001 by
assi coni by n tem all L ther own inte- con part	COMPANY, and a gns, the entire right invation (in whole ne or made jointly nination of, my emeters Patent, resure to (including the iname and to claim the tinuation (in whole to upon the said inv	corporation of Delaware, having nt, title, and interest in and to the or in part) of said application, an with others (provided any such ir ployment with 3M COMPANY an xaminations, reissues, or extension right to apply for Letters Patent, Letters patent, Letters patent, to many priority rights for such foreit ons, treaties, or otherwise), which or in part), renewal, reexamination.	its principal offices and invention and to any a moreovernent is made any of its existions thereof, of the Jtility Models, or ign applications to have been or moon, reissue, or of to be held and e	TIES COMPANY, a wholly-owned subsidiary of the at Saint Paul, Minnesota, its successors and application, and in and to any division or and all improvements in the said invention made ade during, or within one year after the ang or future subsidiaries), and in and to any and the United States of America and countries foreign Inventors' Certificates in foreign countries in its to which such applications are entitled under that application or on any divisional, there or further application based in whole or in njoyed as fully and exclusively as they would
con that and	sideration any furt may be deemed	her applications, assignments, ar necessary by said Company, its s	nd documents, a successors, assig	ators, to execute and deliver without further nd to perform such other acts as I lawfully may, gns, and nominees, fully to secure its right, title, y Models, or Inventors' Certificates in any and all
gra	hereby authorize nted upon any of t and interest then	he said applications, to said 3M I	f Patents to issu nnovative Prope	e any and all Letters Patent which may be rties Company, as the assignee of the entire right
Le	gal Name of Inver	ntor:	***************************************	
3	yungchan Kar			
in'	ventor's Signature	·	Date:	
	75°	mana		04/17/2018

PATENT REEL: 046031 FRAME: 0930

**RECORDED: 06/08/2018**