## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5543302

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DYLAN T. COSGROVE	02/22/2019
CATHERINE A. LEATHERDALE	02/21/2019
FAY T. SALMON	05/28/2019
JUN FUJITA	04/01/2019
ALBERT I. EVERAERTS	02/22/2019

#### **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:	16464634

#### **CORRESPONDENCE DATA**

Fax Number: (651)736-3427

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: ilanderson6@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:	78863US008	
NAME OF SUBMITTER:	JAMIE L. ANDERSON	
SIGNATURE:	/Jamie L. Anderson/	
DATE SIGNED:	05/28/2019	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 5** 

**PATENT REEL: 049297 FRAME: 0058** 

505496498



Case No:

78863US008

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;

ELECTRON	IC DEVICES INCORPORATION INTERLOCK	NG FLEXIBLE COMPONENT LAYERS WITH KING DEVICES
The specification of v	vhich:	
is attached here	to;	
☐ was filed on as United States	Application No.	
is identified as F	CT International Application No.  November 22, 2017	PCT/US2017/062994
The above-identified	application was made or authorized	to be made by me.
I hereby acknowledge fine or imprisonment	e that any willful false statement mad of not more than 5 years, or both.	de in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made jointly termination of, my em all Letters Patent, ree thereto (including the own name and to clai international conventicontinuation (in whole part upon the said inv	and transfer unto the 3M INNOVAT a corporation of Delaware, having its ht, title, and interest in and to the sate or in part) of said application, and in with others (provided any such improporate with 3M COMPANY and a xaminations, reissues, or extensions right to apply for Letters Patent, Utilim any priority rights for such foreignons, treaties, or otherwise), which has or in part), renewal, reexamination.	of which is acknowledged. I have agreed to assign and transfer IVE PROPERTIES COMPANY, a wholly-owned subsidiary of a principal office at Saint Paul, Minnesota, its successors and itd invention and application, and in and to any division or and to any and all improvements in the said invention made rovement is made during, or within one year after the any of its existing or future subsidiaries), and in and to any and a thereof, of the United States of America and countries foreign ity Models, or Inventors' Certificates in foreign countries in its applications to which such applications are entitled under ave been or may be granted thereon or on any divisional, reissue, or other or further application based in whole or in be held and enjoyed as fully and exclusively as they would sen made;
that may be deemed i	her applications, assignments, and c necessary by said Company, its succ	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, cessors, assigns, and nominees, fully to secure its right, title, a Patent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize granted upon any of the title, and interest there	ne said applications, to said 3M Inno	atents to issue any and all Letters Patent which may be evaluative Properties Company, as the assignee of the entire right,
Legal Name of Inven	tor:	
Dylan T. Cosg	rove	
Inventor's Signature:		Date:
The C		2/22/19

PATENT

**REEL: 049297 FRAME: 0060** 

Case No:

78863US008

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:

ELECTRONI	C DEVICES INCORPORATION INTERLOCK	NG FLEXIBL	E COMPONENT LAYERS WITH
The specification of w			
is attached heret	to;		
was filed on as United States	Application No.		
is identified as Perfiled on	CT International Application No. November 22, 2017		PCT/US2017/062994
The above-identified a	application was made or authorized	to be made by	me,
I hereby acknowledge fine or imprisonment of	that any willful false statement mad f not more than 5 years, or both.	de in this declar	ation is punishable under 18 U.S.C. 1001 by
3M COMPANY, and a 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 claim international convention continuation (in whole part upon the said inventage).	corporation of Delaware, having its at, title, and interest in and to the sat or in part) of said application, and inwith others (provided any such improdoyment with 3M COMPANY and a caminations, reissues, or extensions ight to apply for Letters Patent, Utilin any priority rights for such foreignors, treaties, or otherwise), which have in part), renewal, reexamination, ention or improvements thereon, to be this assignment and transfer not be	IVE PROPERT principal office id invention and n and to any an rovement is ma iny of its existin the threeof, of the applications to ave been or ma reissue, or othe be held and enj en made;	owledged, I have agreed to assign and transfer IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or drall improvements in the said invention made de during, or within one year after the ground or within one year after the ground or subsidiaries), and in and to any and United States of America and countries foreign eventors' Certificates in foreign countries in its which such applications are entitled under y be granted thereon or on any divisional, are or further application based in whole or in oyed as fully and exclusively as they would
that may be deemed n	ecessary by said Company, its succ	locuments, and	ors, to execute and deliver without further 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 all
I do hereby authorize a granted upon any of the title, and interest therei	e said applications, to said 3M inno	atents to issue a vative Propertia	any and all Letters Patent which may be as Company, as the assignee of the entire right,
Legal Name of Invent	or:	<u></u>	
Catherine A. Le	eatherdale		
Inventor's Signature:		Date:	
Culliano	A. Leuth leb	Bel	F21,2019

Case No:

78863US008

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:

# ELECTRONIC DEVICES INCORPORATING FLEXIBLE COMPONENT LAYERS WITH INTERLOCKING DEVICES The specification of which: is attached hereto: was filed on as United States Application No. is identified as PCT International Application No. PCT/US2017/062994 filed on November 22, 2017 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 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 had this assignment and transfer not been made; 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: Fav T. Salmon Inventor's Signature: Date: 5/28/2019

Case No:

78863US008

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:

ELECTRONI	C DEVICES INCORPORATI	NG FLEXIBL KING DEVIC	E COMPONENT LAYERS WITH
The specification of w			
is attached here			
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is identified as P     filed on	CT International Application No.  November 22, 2017		PCT/US2017/062994
The above-identified a	application was made or authorized	to be made by	me.
i hereby acknowledge			ation is punishable under 18 U.S.C. 1001 by
3M COMPANY, and a 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 conventio continuation (in whole part upon the said invelement upon the said invelopment upon the deemed not under the said interest as aforesaid unterest as aforesaid unterest as aforesaid unterest and unterest as aforesaid unterest	corporation of Delaware, having its title, and interest in and to the sa or in part) of said application, and with others (provided any such impoloyment with 3M COMPANY and a saminations, reissues, or extension ight to apply for Letters Patent, Util any priority rights for such foreign ns, treaties, or otherwise), which have in part), renewal, reexamination, ention or improvements thereon, to this assignment and transfer not be expected and for my heirs, executors, are applications, assignments, and excessary by said Company, its such and to obtain or maintain Letters are several and to obtain or maintain Letters.	s principal office and invention and rowerent is making any of its existing thereof, of the applications to applications to applications to be held and enjury made; and administrate documents, and cessors, assigns a patent, Utility March 1980.	owledged, I have agreed to assign and transfer IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or deall improvements in the said invention made during, or within one year after the gor future subsidiaries), and in and to any an United States of America and countries foreign ventors' Certificates in foreign countries in its which such applications are entitled under to be granted thereon or on any divisional, are or further application based in whole or in expect as fully and exclusively as they would have, to execute and deliver without further to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, flodels, or inventors' Certificates in any and all flodels, or inventors' Certificates in any and all
granted upon any of the itle, and interest therei	Y TOTA APPROPRIOUS, LO SAIG AIR PRINT	atents to issue a vative Propertie	ny and all Letters Patent which may be s Company, as the assignee of the entire righ
Legal Name of Invento	Dr.:	<u> </u>	
Jun Fujita			
Inventor's Signature:		Date:	
Jun	Paita	Azu	1 1 2-10

RECORDED: 05/28/2019

Case No:

78863US008

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:

# ELECTRONIC DEVICES INCORPORATING FLEXIBLE COMPONENT LAYERS WITH INTERLOCKING DEVICES The specification of which: is attached hereto; was filed on as United States Application No. PCT/US2017/062994 is identified as PCT International Application No. November 22, 2017 filed on 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 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 had this assignment and transfer not been made; 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: Albert I. Everaerts Date: Inventor's Signature: Vel 11, Lolg Albert I. Everacity

**PATENT** 

REEL: 049297 FRAME: 0064