506066807 05/19/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6113522

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEPHEN A. JOHNSON	01/02/2020
DEREK W. PATZMAN	11/18/2019
RICHARD Y. LIU	11/21/2019
JOHN F. VAN DERLOFSKE III	11/15/2019
KRISTOPHER DERKS	11/15/2019
VICTOR HO	11/20/2019
KEVIN T. HUSEBY	11/18/2019

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:	15733110

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.

Email: lengel@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:	79718US004	
NAME OF SUBMITTER:	LINDA ENGEL	
SIGNATURE:	/Linda Engel/	
DATE SIGNED:	05/19/2020	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 7 source=Declaration_Assignment_Executed_79718US004#page1.tif source=Declaration_Assignment_Executed_79718US004#page2.tif source=Declaration_Assignment_Executed_79718US004#page3.tif source=Declaration_Assignment_Executed_79718US004#page4.tif source=Declaration_Assignment_Executed_79718US004#page5.tif source=Declaration_Assignment_Executed_79718US004#page6.tif source=Declaration_Assignment_Executed_79718US004#page7.tif

Case No:

79718US

As a below	named inventor, I	believe I am	an original	inventor of	or an	original	joint inven	tor of a	claimed	invention	in the
application	and for which a pa	tent is sough	t on the invi	ention ent	itled:						
95 W	and the second s										

		Substrate Including a Self-Supporting	Tri-Layer Stack
The	specification of wh	ich:	
	is attached hereto		
	was filed on as United States A	Application No.	
\boxtimes	is identified as PC filed on	T International Application No. November 19, 2018	PCT/US2018/061731

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:	
Stephen A. Johnson	
Inventor's Signature:	Date: 1/2/20

Case No:

79718US

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the

Substrate Including a Self-Suppor	rting Tri-Layer Stack
The specification of which: is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on November 19, 2018	PCT/US2018/061731
The above-identified application was made or authorized to be mad	le by me.
I hereby acknowledge that any willful false statement made in this of fine or imprisonment of not more than 5 years, or both.	declaration is punishable under 18 U.S.C. 1001 by

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.

Derek W. Patzman	
Lauranta de Ciranta de	
Inventor's Signature: Da Market Common Com	Pate: 11/18/19

Case No:

79718US

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:

		Substrate Including a Self-Supporting	Tri-Łayer Stack
The	specification of whi	eh:	
	is attached hereto;		
	was filed on as United States A	application No.	
×	is identified as PC filed on	T International Application No. November 19, 2018	PCT/US2018/061731

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any wilful 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: Richard Y. Liu	
Inventor's Signature:	Date:
SAMO	11-21-2019

Case No:

79718US

Substrate Including a Self-S	Supporting Tri-Layer Stack
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on November 19, 2018	PCT/US2018/061731
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
and do hereby assign and transfer unto the 3M INNOVATIVE 3M COMPANY, and a corporation of Delaware, having its passigns, the entire right, title, and interest in and to the said continuation (in whole or in part) of said application, and in by me or made jointly with others (provided any such improtermination of, my employment with 3M COMPANY and an all Letters Patent, reexaminations, reissues, or extensions thereto (including the right to apply for Letters Patent, Utility own name and to claim any priority rights for such foreign a international conventions, treaties, or otherwise), which have continuation (in whole or in part), renewal, reexamination, repart upon the said invention or improvements thereon, to be have been by me had this assignment and transfer not been	and to any and all improvements in the said invention made overment is made during, or within one year after the by of its existing or future subsidiaries), and in and to any and thereof, 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 en made;
that may be deemed 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
I do hereby authorize and request the Commissioner of Pa granted upon any of the said applications, to said 3M Innov title, and interest therein.	tents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire right
Legal Name of Inventor:	
John F. Van Derlofske, III	
Inventor's Signature	Date:
Mr Wer I	11/15/19

Case No:

79718US

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appl	i below named inve ication and for which	entor, I believe I am an original inventor or an each a patent is sought on the invention entitled:	original joint inventor of a claimed invention in the
		Substrate Including a Self-Supporti	ng Tri-Layer Stack
The	specification of wh	ich:	
	is attached hereto	:	
	was filed on as United States A	Application No.	
\boxtimes	is identified as PC filed on	T International Application No. November 19, 2018	PCT/US2018/061731
The	above-identified ap	oplication was made or authorized to be made	by me.
I her fine	eby acknowledge to imprisonment of	that any willful false statement made in this dec not more than 5 years, or both.	laration is punishable under 18 U.S.C. 1001 by
and 3M (assi	do hereby assign a COMPANY, and a c gns, the entire right	and transfer unto the 3M INNOVATIVE PROPE corporation of Delaware, having its principal off t, title, and interest in and to the said invention a	knowledged, I have agreed to assign and transfer RTIES COMPANY, a wholly-owned subsidiary of ice at Saint Paul, Minnesota, its successors and and application, and in and to any division or and all improvements in the said invention made

a 31 as 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:	
Kristopher Derks	
Inventor's Signature:	Date: No. 15 2019

Case No:

79718US

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:

n chatica.				
Substrate Including a Self-Supporting Tri-Layer Stack				
PCT/US2018/061731				
be made by me.				
in this declaration is punishable under 18 U.S.C. 1001 by				
which is acknowledged, I have agreed to assign and transfer /E PROPERTIES COMPANY, a wholly-owned subsidiary of principal office at Saint Paul, Minnesota, its successors and invention and application, and in and to any division or and to any and all improvements in the said invention made ovement is made during, or within one year after the y of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreign / 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, eissue, or other or further application based in whole or in a held and enjoyed as fully and exclusively as they would n made;				
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				
tents to issue any and all Letters Patent which may be ative Properties Company, as the assignee of the entire right,				
Dete				
Date:				
11/20/19				

RECORDED: 05/19/2020

Case No:

79718US

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 o	on the invention entitled:	•
Substrate Includ	ding a Self-Supporting	Tri-Layer Stack
The specification of which:		
is attached hereto;	NA POPPARATOR AND	
was filed on as United States Application No.		
is identified as PCT International Applic filed on November 19, 2018		PCT/US2018/061731
The above-identified application was made o	r authorized to be made by r	ne.
I hereby acknowledge that any willful false st fine or imprisonment of not more than 5 year	atement made in this declara s, or both.	ation is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfer unto the 3 3M COMPANY, and a corporation of Delawa assigns, the entire right, title, and interest in continuation (in whole or in part) of said appli by me or made jointly with others (provided a termination of, my employment with 3M COM all Letters Patent, reexaminations, reissues,	M INNOVATIVE PROPERTINE, having its principal office and to the said invention and ication, and in and to any and in such improvement is made in a such foreign applications to see the seen or may examination, reissue, or other thereon, to be held and enjoys the seen of the such foreign applications to such foreign applications to the seen or may examination, reissue, or other thereon, to be held and enjoys the seen not been made;	d all 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 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 cycle as fully and exclusively as they would
consideration any further applications, assign hat may be deemed necessary by said Com	ments, and documents, and pany, its successors, assigns	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
do hereby authorize and request the Comm granted upon any of the said applications, to itle, and interest therein.		any and all Letters Patent which may be as Company; as the assignee of the entire right,
Legal Name of Inventor:		
Kevin T. Huseby	Canada Caranta	
Inventor's Signature:	Date:	
Z ZImby	11/1	8/19

PATENT

REEL: 052702 FRAME: 0305