505192266 11/15/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5239035

CONVEYING PARTY DATA

Name	Execution Date
DEREK J. DEHN	11/01/2018
CLINTON P. WALLER JR.	11/02/2018
BHARAT R. ACHARYA	11/01/2018

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:	16191547

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

3M INNOVATIVE PROPERTIES COMPANY **Correspondent Name:**

Address Line 1: P.O. BOX 33427

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

ATTORNEY DOCKET NUMBER:	80067US003
NAME OF SUBMITTER:	KELLY J. HOLMBERG
SIGNATURE:	/Kelly J. Holmberg/
DATE SIGNED:	11/15/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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PATENT REEL: 047513 FRAME: 0865 505192266

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

Case No:

80067US003

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:

POLYMER MATRIX COMPOSITES COMPRISING THERMALLY INSULATING PARTICLES AND METHODS OF MAKING THE SAME The specification of which: is attached hereto: Was filed on as United States Application No. is identified as PCT International Application No. 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 assions, 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 GOMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, relssues, 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: Derek J. Dehn Inventor's Signature: 11/11/2018

PATENT REEL: 047513 FRAME: 0866

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

Case No:

80067US003

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:

POLYMER MATRIX COMPOSITES COMPRISING THERMALLY INSULATING PARTICLES AND METHODS OF MAKING THE SAME

PAI	RTICLES AND METHOD	S OF MAKING TH	ESAME	
The specification of which:				
is attached hereto;				
was filed on as United States Applica	ation No.			
is identified as PCT Inte	mational Application No.			
The above-identified applicat	ion was made or authorized to	be made by me.		
I hereby acknowledge that ar fine or imprisonment of not m		in this declaration is p	unishable under 18 U.S.C. 1001 by	
3M COMPANY, and a corpor assigns, the entire right, title, continuation (in whole or in post by me or made jointly with oth termination of, my employme all Letters Patent, reexaminal thereto (including the right to own name and to claim any post international conventions, tre continuation (in whole or in post part upon the said invention of have been by me had this as	ration of Delaware, having its p and interest in and to the said art) of said application, and in a hers (provided any such impro- int with 3M COMPANY and any tions, reissues, or extensions to apply for Letters Patent, Utility priority rights for such foreign a laties, or otherwise), which have art), renewal, reexamination, re or improvements thereon, to be signment and transfer not beel	principal office at Saint invention and applicate and to any and all implicate of the work of the United Strategy of its existing or future thereof, of the United Strategy of the Strategy of the United Stra	e subsidiaries), and in and to any an states of America and countries foreign Certificates in foreign countries in its uch applications are entitled under nted thereon or on any divisional, her application based in whole or in fully and exclusively as they would	e id gn
consideration any further app that may be deemed necess	olications, assignments, and do ary by said Company, its succe	ocuments, and to perfo	recute and deliver without further orm such other acts as I lawfuily may, ominees, fully to secure its right, title or Inventors' Certificates in any and a	ť
			all Letters Patent which may be sany, as the assignee of the entire rig	jht
Legal Name of Inventor:				
Clinton P. Waller, Jr.				
Inventor's Signature:	- J	Date:		
1934 P.W.	L.L	11-2-	19	

PATENT REEL: 047513 FRAME: 0867

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

Case No:

80067US003

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 which	u a bateòt ia aond	ht on the invention er	ibiled:		
POLYMER	MATRIX CON	POSITES COMP	RISING THE	ERMALLY INSULA	ATING
	PARTICLES !	AND METHODS	OF MAKING	THE SAME	
The specification of whic	ch:				
is attached hereto;					
☐ was filed on [
as United States A	ppiicalion No.		L	,	***************************************
is identified as PCI filed on	f International App	olication No.			
The above-identified ap	plication was mad	e or authorized to be	made by me.		
I hareby acknowledge the fine or imprisonment of the contract	nat any willful falso not more than 5 y	statement made in t ears, or both.	this declaration	is punishable under 1	8 U.S.C. 1001 by
In addition, for good and and do hereby assign at 3M COMPANY, and a cassigns, the entire right, continuation (in whole oby me or made jointly witermination of, my emploal Letters Patent, reexe thereto (including the rigown name and to claim international convention continuation (in whole opart upon the said inventage been by me had the	nd transfer unto the orporation of Dels fille, and interest in part) of said a fith others (provide oyment with 3M Cominations, reissue any priority rights, treaties, or other in part), renewal ition or improvement and sassignment and opportunity assignment and opportunity of Dels in part).	e 3M INNOVATIVE file and to the said inverse having its principal in and to the said inverse of any such improven OMPANY and any of es, or extensions there are Patent, Utility Mofor such foreign application, which have by reexamination, reissents thereon, to be hed iransfer not been medical.	PROPERTIES cipal office at Sizention and application and all nent is made different is made different in the United Stations to whice of office of other or ald and enjoyed ade;	COMPANY, a wholly- aint Paul, Minnesota, plication, and in and to improvements in the s uring, or within one ye huture subsidiaries), at ed States of America lors' Certificates in fon the such applications at granted thereon or or further application bat as fully and exclusive	owned subsidiary of its successors and any division or said invention made ar after the addinate foreign and countries foreign eign countries in its reentitled under any divisional, sed in whole or in all years they would
I do further agree for my consideration any furthe that may be deemed ne and interest as aforesaid countries; and	r applications, as cessary by said C	signments, and docur ompany, its successi	ments, and to p ors, assigns, as	perform such other act and nominees fully to s	s as I lawfully may, ecure its right title
I do hereby authorize ar granted upon any of the title, and interest therein	said applications	nmissioner of Patent to said 3t/l Innovativ	s to Issue any : e Properties C	and all Letters Patent ompany, as the assign	which may be nee of the entire right,
Legal Name of Invento	r:	nananin Ninan	······································		
Bharat R. Acharya	\$				() () () () ()
Inventor's Signature:		Di	ate.		
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PATENT REEL: 047513 FRAME: 0868

RECORDED: 11/15/2018