505034341 08/02/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5081092

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KENTON D. BUDD	06/19/2018
ZAI-MING QIU	06/19/2018
MAHMUT AKSIT	07/09/2018
NEERAJ SHARMA	06/19/2018

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:	16066194

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: hhfroelke1@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:	77399US006	
NAME OF SUBMITTER:	HYLIS H. FROELKE	
SIGNATURE:	/Hylis H. Froelke/	
DATE SIGNED:	08/02/2018	

Total Attachments: 4

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Case No:

77399US006

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:

	RTICLE COMPRISING PART		QUANTUM DOTS	
The specification of wi				
is attached hereto				
was filed on as United States	Application No.			
is identified as Po	CT International Application No. 28 DECEMBER 2016		PCT/US2016/068780	
The above-identified a	application was made or authorized to	o be made by m	e.	
	that any willful false statement made of not more than 5 years, or both.	e in this declara	tion is punishable under 18 t	J.S.C. 1001 by
and do hereby assign and 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 convention continuation (in whole part upon the said investign of the continuation in the continuation of th	nd valuable consideration, receipt of and transfer unto the 3M INNOVATI corporation of Delaware, having its at, title, and interest in and to the said or in part) of said application, and in with others (provided any such improployment with 3M COMPANY and arcaminations, reissues, or extensions right to apply for Letters Patent, Utility any priority rights for such foreign any priority rights for such foreign and priority rights for such foreign and part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not been	VE PROPERTISE principal office a d invention and and to any and evement is mad- ny of its existing thereof, of the to y Models, or Inventions to we we been or may reissue, or other we held and enjo	ES COMPANY, a wholly-own at Saint Paul, Minnesota, its application, and in and to an all improvements in the said of during, or within one year a or future subsidiaries), and indiced States of America and rentors' Certificates in foreign which such applications are educations are education or on any or further application based.	ned subsidiary of successors and y division or invention made after the n and to any and countries foreign tountries in its intitled under y divisional, in whole or in
consideration any furth that may be deemed n	nyself and for my heirs, executors, and de ner applications, assignments, and de necessary by said Company, its succe aid and to obtain or maintain Letters	ocuments, and t essors, assigns	to perform such other acts as , and nominees, fully to secu	s I lawfully may, re its right, title.
I do hereby authorize a granted upon any of th title, and interest there	and request the Commissioner of Pa e said applications, to said 3M Innov in.	tents to issue ar rative Properties	ny and all Letters Patent whi s Company, as the assignee	ch may be of the entire right,
Legal Name of Invent	tor:	•		
Kenton D. BUDD) -			
Inventor's Signature:	nd Bull	Date:	19/20/8	

have been by me had this assignment and transfer not been made;

Case No:

77399US006

application and for which a patent is sought on the invention entitled:	
ARTICLE COMPRISING PARTICLES WIT	H QUANTUM DOTS
The specification of which:	
is attached hereto;	
was filed on	
as United States Application No.	
⊠ is identified as PCT International Application No.	PCT/US2016/068780
filed on 28 DECEMBER 2016	
The above-identified application was made or authorized to be made by	me,
I hereby acknowledge that any willful false statement made in this declar fine or imprisonment of not more than 5 years, or both.	ration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which is acknown and do hereby assign and transfer unto the 3M INNOVATIVE PROPER 3M COMPANY, and a corporation of Delaware, having its principal office assigns, the entire right, title, and interest in and to the said invention an continuation (in whole or in part) of said application, and in and to any arby me or made jointly with others (provided any such improvement is matermination of, my employment with 3M COMPANY and any of its existing all Letters Patent, reexaminations, reissues, or extensions thereof, of the thereto (including the right to apply for Letters Patent, Utility Models, or I own name and to claim any priority rights for such foreign applications to international conventions, treaties, or otherwise), which have been or material to the said invention or improvements thereon, to be held and en	TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and d application, and in and to any division or and all improvements in the said invention made ade during, or within one year after the ing or future subsidiaries), and in and to any and e United States of America and countries foreign inventors' Certificates in foreign countries in its or which such applications are entitled under ay be granted thereon or on any divisional, there or further application based in whole or in

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

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:	
Zai-Ming QIU	
Inventor's Signature:	Date:
	6/19/2018

Case No:

77399US006

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 wr	nich a patent is sought on the invention	n entitied:	
P	RTICLE COMPRISING PARTI	CLES WITH	QUANTUM DOTS
The specification of w	hich:		
is attached here	to,		
☐ was filed on as United States	Application No.		
⊠ is identified as P filed on	CT International Application No. 28 DECEMBER 2016		PCT/US2016/068780
The above-identified	application was made or authorized to	be made by m	e.
	e that any willful false statement made of not more than 5 years, or both.	in this declara	tion 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 emall 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 INNOVATIVE corporation of Delaware, having its part, title, and interest in and to the said or in part) of said application, and in with others (provided any such improsployment with 3M COMPANY and an xaminations, reissues, or extensions tright to apply for Letters Patent, Utility many priority rights for such foreign a cons, treaties, or otherwise), which have or in part), renewal, reexamination, re	/E PROPERTION or incipal office and invention and and to any and wement is made y of its existing thereof, of the law models, or Implications to version or other held and enjoyed.	Medged, I have agreed to assign and transfer ES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or all improvements in the said invention made e during, or within one year after the or future subsidiaries), and in and to any and Jnited States of America and countries foreign ventors' Certificates in foreign countries in its which such applications are entitled under be granted thereon or on any divisional, r or further application based in whole or in yed as fully and exclusively as they would
consideration any furt that may be deemed	her applications, assignments, and do necessary by said Company, its succe	ocuments, and essors, assigns	rs, to execute and deliver without further to perform such other acts as I lawfully may, , and nominees, fully to secure its right, title, lodels, or Inventors' Certificates in any and all
I do hereby authorize granted upon any of t title, and interest then	he said applications, to said 3M Innov	tents to issue a ative Propertie	ny and all Letters Patent which may be s Company, as the assignee of the entire right,
Legal Name of Inver	ntor:		
Mahmut AKSIT			
Inventor's Signature	Sad	Date:	1917018

Case No:

77399US006

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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4	RTICLE COMPRISING PART	ICLES WIT	'H QUANTUM DOTS
The specification of w	hich:		
is attached here	to;		
and a green strain			
was filed on as United States	Application No.		
as Officeu States	Application No.		
is identified as P	CT International Application No.		PCT/US2016/068780
filed on	28 DECEMBER 2016		
The above-identified	application was made or authorized to	o be made by	me.
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consideration any furt that may be deemed	her applications, assignments, and d necessary by said Company, its succ	ocuments, an essors, assig	tors, to execute and deliver without further d 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 a
	he said applications, to said 3M Inno		any and all Letters Patent which may be ies Company, as the assignee of the entire rigi
Legal Name of Inver	etor:	***************************************	
Neeraj SHARMA			
Inventor's Signature		Date:	
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attention of the	and a second		7 1 1 9 1 7 201 X 1

PATENT REEL: 046544 FRAME: 0631

RECORDED: 08/02/2018