#### 506336999 11/04/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6383752

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
YUNLONG QIAO	07/31/2018
SAUJIT BANDHU	07/30/2018
JOHANNES P.M. KUSTERS	08/01/2018

## **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:	16301991		

## 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:	77584US004
NAME OF SUBMITTER:	LINDA ENGEL
SIGNATURE:	/Linda Engel/
DATE SIGNED:	11/04/2020

# **Total Attachments: 3**

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> **PATENT REEL: 054267 FRAME: 0055** 506336999

#### DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.53)

Case No:

77584US004

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:

	ELECTRICAL CONNECTOR FOR PF	MITED GROOT DOALOG
ne specification o	(which:	
is attached he	reto:	
was filed on	T	
	tes Application No.	
ী is identified a	s PCT International Application No.	PCT/US2017/030336
filed on	May 1, 2017	

I bereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 b fine or impresonment 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 amployment 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 therato (Inclinding 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 assue 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		
YunLong Qiao		
	 Date	
Inventor's Signature:		
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#### DECLARATION AND ASSIGNMENT: FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:

77584US004

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:

C) FORDISAL SOLUTION DE	
ELECTRICAL CONNECTOR FOR PRINTED	CIRCUIT BOARDS
The specification of which:	
is attached hereto;	
☐ was filed on	
as United States Application No.	
is identified as PCT International Application No.	PCT/US2017/030336
filed on May 1, 2017	

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

I hereby acknowledge that any willful talse 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 SM INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of SM 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 rite 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, ressues, 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 the restrictions conventions, (relates, or otherwise), which have been or may be granted thereon or an any divisional continuation (in whole or in part), renewal, reexamination, resistes, 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 or 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 nonlinees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Palent, 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 SM Innovative Properties Company, as the assignee of the entire right title, and interest therein.

Legal Name of Inventor	E.			
Saujit Bandhu				
Inventor's Signature;		Dale:		
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Share	-	30-4	- 2018	
			1 ¥	

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

Case No:

77584US004

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	th a patent is sought on the invent	ion entitled:	
ELI	ECTRICAL CONNECTOR F	OR PRINTED	CIRCUIT BOARDS
The specification of whi	lch:		
is attached hereto;	\$		
☐ was filed on as United States A	pplication No.		
is identified as PC filed on	T International Application No. May 1, 2017		PCT/US2017/030338
The above-identified ap	plication was made or authorized	lo be made by n	ńe.
hereby acknowledge ti			ition is punishable under 18 U.S.C. 1001 by
and company assign a assigns, the entire right, continuation (in whole or assigns, the entire right, continuation of, my employ emination of, my employ all Letters Patent, reexa hereto (including the right wan name and to claim international convention continuation (in whole or part upon the said invention and upon the said invention and upon the said invention and further agree for my consideration any further that may be deemed new	tropporation of Delaware, having its , title, and interest in and to the said in part) of said application, and in it in part) of said application, and in it in part) of said application, and in it in part) of said application, and it in others (provided any such improvement with 3M COMPANY and a siminations, reissues, or extensions that to apply for Letters Patent, Utiliany priority rights for such foreign is, treaties, or otherwise), which have in part), renewal, reexamination, it in part), renewal, reexamination, it in part), renewal, reexamination, it is assignment and transfer not be useff and for my heirs, executors, and occasion by said Company, its successory by said Company, its successory	IVE PROPERTI  principal office and invention and one one of its existing thereof, of the later o	wledged, 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 a lall improvements in the said invention made to all improvements in the said invention made to during, or within one year after the or future subsidiaries), and in and to any and United States of America and countries foreign remore. Certificates in foreign countries in its which such applications are entitled under to be granted thereon or on any divisional, or or further application based in whole or in oyed as fully and exclusively as they would res, 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
do hereby authorize an	SAIU ADDIICARDUS. IO SAID 3M INDO	stents to issue a vative Properties	ny and all Letters Patent which may be s Company, as the assignee of the entire righ
Legal Name of Inventor	<u> </u>		
Johannes P.M. Ku	isters		***************************************
Inventore Signature		Date:	1/2018

**PATENT** 

**RECORDED: 11/04/2020** 

REEL: 054267 FRAME: 0058