PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Junsheng Zhou	09/03/2010
Zhiyong Xu	08/24/2010
Ping Wang	08/31/2010
Pierre Bonvallat	08/13/2010

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:	12867069	

CORRESPONDENCE DATA

Fax Number: (651)736-3833

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 651-733-1500
Email: ttcollier@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:	63393US006
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NAME OF SUBMITTER: Theresa T. Collier

Total Attachments: 9

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PATENT REEL: 024950 FRAME: 0655 **\$40.00** 1286/06

501283941



PATENT REEL: 024950 FRAME: 0656

Case No.: 63393US006

ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	HIGH DENSITY FIBER DISTRIBUTION HUB
	or which an application for a United States Patent is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. 12/867069; was filed on August 11, 2010;
\boxtimes	which application is identified as PCT International Patent Application No. PCT/US2009/035440; filed February 27, 2009;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we 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/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our 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/we 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

Assignment

Page 1 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

I/We 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.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): JUNSHENG	Family Name or Surname: ZHOU		
Inventor's Signature:	Date:		
Sunshing Zhou Residence:	Sept. 3nd. 2010		
Residence: V	Country: Citizenship:		
Shanghai	China China		
Jun Zhou Sep srd.2010 Witness	Yuanzhe Zhang. Sep. 3. Jolo Witness		
Given Name (first and middle [if any]): ZHIYONG	Family Name or Surname:		
Inventor's Signature:	Date:		
<u> </u>			
Residence:	Country: Citizenship:		
Shanghai	China China		
Witness	Witness		
Given Name (first and middle [if any]): PING	Family Name or Surname: WANG		
Inventor's Signature:	Date:		
Residence:	Country: Citizenship:		
Shanghai	China China		
Witness	Witness		

Assignment

Page 2 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Given Name (first and middle [if any]): PIERRE	Family Name of BONVALLAT	Family Name or Surname: BONVALLAT	
Inventor's Signature:	Date:		
Residence: Cluses	Country: France	Citizenship: France	
Witness	Witness	·	_

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Case No.: 63393US006

ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

HIGH DENSITY FIBER DISTRIBUTION HUB

or which an application for a United States Patent is being filed contemporaneously herewith;

for which an application for a United States Patent identified as U.S. Patent Application No.

12/867069; was filed on August 11, 2010;

Which application is identified as PCT International Patent Application No. PCT/US2009/035440; filed February 27, 2009;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we 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/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our 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/we 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

Case No.: 633931/S006

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Page 1 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427 I/We 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.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): JUNSHENG	Family Name or Surname:		
Inventor's Signature:	Date:		
Residence: Shanghai	Country: Citizenship: China China		
Witness	Witness		
Given Name (first and middle [if any]): ZHIYONG	Family Name or Surname: XU		
Inventor's Signature: ZHIYONG XU Residence:	Date: Aug, 24th, 2010 Country: Citizenship:		
Shanghai	Country: Citizenship: China China		
Jingging Zhon Zong Haifeng. Witness Witness			
Given Name (first and middle [if any]): PING	Family Name or Surname: WANG		
Inventor's Signature:	Date: 1/2 3 / 2 / 2 / 2 / 2 3 / 3 / 3 3		
Residence: Shanghai	Country: Citizenship: China China		
Jingying Zhon Witness	Zong Haivferg Witness		

Assignment

Page 2 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Given Name (first and middle [if any]): PIERRE	Family Name of BONVALLAT	Family Name or Surname: BONVALLAT	
Inventor's Signature:	Date:	Date:	
Residence: Cluses	Country: France	Citizenship: France	
Witness	Witness		

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Page 3 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Case No.: 63393138006

Case No.: 63393US006

ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	HIGH DENSITY FIBER DISTRIBUTION HUB
\boxtimes	or which an application for a United States Patent is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. 12/867069; was filed on August 11, 2010;
\boxtimes	which application is identified as PCT International Patent Application No. PCT/US2009/035440; filed February 27, 2009.

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we 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/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our 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/we 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

Assignment

Page 1 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

I/We 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.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): JUNSHENG	Family Name or Surname:			
Inventor's Signature:	Date:			
Residence: Shanghai	Country: China	Citizenship: China		
1186	\AP4			
Witness	Witness			
Given Name (first and middle [if any]): ZHIYONG	Family Name or Surname:			
Inventor's Signature:	Date:			
Residence:	Country:	Citizenship:		
Shanghai	China	China		
Witness	Witness			
vvitness				
Given Name (first and middle [if any]):	Earning Marrie or Sur			
PING	Family Name or Surname: WANG			
Inventor's Signature:	Date:			
Residence:	Country:	Citizenship:		
Shanghai	China	China		
Witness	Witness	· · · · · · · · · · · · · · · · · · ·		
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PATENT REEL: 024950 FRAME: 0664

Given Name (first and middle [if any]): PIERRE	Family Name or Sur BONVALLAT	name:
Inventor's Signature:	Date: August &	810, 13th
Residence:	Country:	Citizenship:
Cluses	France	France
16 August 2010 (Bather 1014 JOEL 1/August 2010)		
Witness	Witness	

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Case No.: 63393US006

PATENT REEL: 024950 FRAME: 0665

RECORDED: 09/08/2010