

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5705417

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT								
EFFECTIVE DATE:	12/17/2005								
CONVEYING PARTY DATA									
	<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>PIERRE BONVALLAT</td> <td>12/17/2005</td> </tr> <tr> <td>GUY METRAL</td> <td>01/23/2006</td> </tr> <tr> <td>GAETAN PERRIER</td> <td>01/19/2006</td> </tr> </tbody> </table>	Name	Execution Date	PIERRE BONVALLAT	12/17/2005	GUY METRAL	01/23/2006	GAETAN PERRIER	01/19/2006
Name	Execution Date								
PIERRE BONVALLAT	12/17/2005								
GUY METRAL	01/23/2006								
GAETAN PERRIER	01/19/2006								
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									
	<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11782406</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	11782406				
Property Type	Number								
Application Number:	11782406								
CORRESPONDENCE DATA									
Fax Number:									
<i>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.</i>									
Email:	tmiller@wt-ip.com								
Correspondent Name:	WITHROW & TERRANOVA PLLC								
Address Line 1:	106 PINEDALE SPRINGS WAY								
Address Line 4:	CARY, NORTH CAROLINA 27511								
ATTORNEY DOCKET NUMBER:	HI18-536A								
NAME OF SUBMITTER:	VINCENT K. GUSTAFSON								
SIGNATURE:	/vincent k. gustafson/								
DATE SIGNED:	09/06/2019								
Total Attachments: 4									
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Case No.: 60265US003

ASSIGNMENT OF APPLICATION

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

A CARRIER AND AN ASSEMBLY INCLUDING A CARRIER AND A TELECOMMUNICATIONS MODULE

- for 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. 11/247400; was filed on October 11, 2005;
- which application is identified as PCT International Patent Application No. filed ;

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

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]): Pierre	Family Name or Surname: Bonvallat	
Inventor's Signature: 	Date: 2005/12/17	
Residence: Shanghai, People's Republic of China	Country: People's Republic of China	Citizenship: France
_____ Witness <i>Caroly Pan</i>	_____ Witness <i>S. Chi</i>	

Given Name (first and middle [if any]): Guy		Family Name or Surname: Metrai	
Inventor's Signature:		Date:	
Residence: Cluses, France	Country: France	Citizenship: France	
_____ Witness		_____ Witness	

Given Name (first and middle [if any]): Gaetan		Family Name or Surname: Perrier	
Inventor's Signature:		Date:	
Residence: Saint Jorioz, France	Country: France	Citizenship: France	
_____ Witness		_____ Witness	

Case No.: 60265US003

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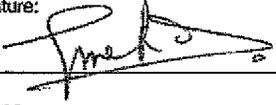
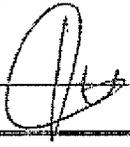
Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office 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;

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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]): Pierre		Family Name or Surname: Bonvallat	
Inventor's Signature:		Date:	
Residence: Shanghai, People's Republic of China		Country: People's Republic of China	Citizenship: France
_____ Witness		_____ Witness	

Given Name (first and middle (if any)): Guy		Family Name or Surname: Metral	
Inventor's Signature: 		Date: 23.01.06.	
Residence: Cluses, France		Country: France	Citizenship: France
Witness: B. MARQUES 		Witness: X. FASCE 	

Given Name (first and middle (if any)): Gaetan		Family Name or Surname: Perrier	
Inventor's Signature: 		Date: 19/01/2006	
Residence: Saint Jorioz, France		Country: France	Citizenship: France
Witness: B. MARQUES 		Witness: X. FASCE 