

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																			
NATURE OF CONVEYANCE:	ASSIGNMENT																			
CONVEYING PARTY DATA																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Ronald L. Langsweirdt</td><td>09/08/2008</td></tr> <tr><td>Herbert Anders</td><td>10/13/2008</td></tr> <tr><td>Bernhard Schneider</td><td>10/13/2008</td></tr> <tr><td>Joerg Hahn</td><td>10/09/2008</td></tr> <tr><td>Marian Starosta</td><td>10/08/2008</td></tr> <tr><td>Manuel Steinbrink</td><td>10/07/2008</td></tr> <tr><td>Manfred Stieglitz</td><td>10/09/2008</td></tr> <tr><td>Bernd Lindenbeck</td><td>10/13/2008</td></tr> </tbody> </table>			Name	Execution Date	Ronald L. Langsweirdt	09/08/2008	Herbert Anders	10/13/2008	Bernhard Schneider	10/13/2008	Joerg Hahn	10/09/2008	Marian Starosta	10/08/2008	Manuel Steinbrink	10/07/2008	Manfred Stieglitz	10/09/2008	Bernd Lindenbeck	10/13/2008
Name	Execution Date																			
Ronald L. Langsweirdt	09/08/2008																			
Herbert Anders	10/13/2008																			
Bernhard Schneider	10/13/2008																			
Joerg Hahn	10/09/2008																			
Marian Starosta	10/08/2008																			
Manuel Steinbrink	10/07/2008																			
Manfred Stieglitz	10/09/2008																			
Bernd Lindenbeck	10/13/2008																			
RECEIVING PARTY DATA																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>3M Innovative Properties Company</td></tr> <tr><td>Street Address:</td><td>P.O. Box 33427</td></tr> <tr><td>City:</td><td>St. Paul</td></tr> <tr><td>State/Country:</td><td>MINNESOTA</td></tr> <tr><td>Postal Code:</td><td>55133-3427</td></tr> </table>			Name:	3M Innovative Properties Company	Street Address:	P.O. Box 33427	City:	St. Paul	State/Country:	MINNESOTA	Postal Code:	55133-3427								
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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12299140</td> </tr> </tbody> </table>			Property Type	Number	Application Number:	12299140														
Property Type	Number																			
Application Number:	12299140																			
CORRESPONDENCE DATA																				
Fax Number: (651)736-3833 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> 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:	62107US008																			

CH \$40.00 12299140

500691814

PATENT
REEL: 021767 FRAME: 0708

NAME OF SUBMITTER:

Theresa T. Collier

Total Attachments: 10

source=Assign_signed_62107US008#page1.tif

source=Assign_signed_62107US008#page2.tif

source=Assign_signed_62107US008#page3.tif

source=Assign_signed_62107US008#page4.tif

source=Assign_signed_62107US008#page5.tif

source=Assign_signed_62107US008#page6.tif

source=Assign_signed_62107US008#page7.tif

source=Assign_signed_62107US008#page8.tif

source=Assign_signed_62107US008#page9.tif

source=Assign_signed_62107US008#page10.tif

ASSIGNMENT OF APPLICATION

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

A TELECOMMUNICATION ENCLOSURE MONITORING SYSTEM

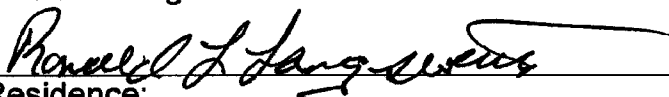
- ☒ for which an application for a United States Patent is being filed contemporaneously herewith;
- ☐ for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
- ☒ which application is identified as PCT International Patent Application No. **PCT/US2007/067974**; filed **May 2, 2007**;

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]): RONALD L.		Family Name or Surname: LANGSWEIRDT	
Inventor's Signature: 		Date: 8/09/08	
Residence: Austin, Texas		Country: USA	Citizenship: United States of America
_____ Witness		_____ Witness	

Given Name (first and middle [if any]): HERBERT		Family Name or Surname: ANDERS	
Inventor's Signature:		Date:	
Residence: Dortmund		Country: Germany	Citizenship: Germany
_____ Witness		_____ Witness	

Given Name (first and middle [if any]): BERNHARD		Family Name or Surname: SCHNEIDER	
Inventor's Signature:		Date:	
Residence: Herne		Country: Germany	Citizenship: Germany
_____ Witness		_____ Witness	

Given Name (first and middle [if any]): JOERG		Family Name or Surname: HAHN	
Inventor's Signature:		Date:	
Residence: Neuss	Country: Germany	Citizenship: Germany	
<div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%; border-top: 1px solid black; text-align: center;">Witness</div> <div style="width: 45%; border-top: 1px solid black; text-align: center;">Witness</div> </div>			

Given Name (first and middle [if any]): MARIAN		Family Name or Surname: STAROSTA	
Inventor's Signature:		Date:	
Residence: Neuss	Country: Germany	Citizenship: Germany	
<div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%; border-top: 1px solid black; text-align: center;">Witness</div> <div style="width: 45%; border-top: 1px solid black; text-align: center;">Witness</div> </div>			

Given Name (first and middle [if any]): MANUEL		Family Name or Surname: STEINBRINK	
Inventor's Signature:		Date:	
Residence: Neuss	Country: Germany	Citizenship: Germany	
<div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%; border-top: 1px solid black; text-align: center;">Witness</div> <div style="width: 45%; border-top: 1px solid black; text-align: center;">Witness</div> </div>			

Given Name (first and middle [if any]): MANFRED		Family Name or Surname: STIEGLITZ	
Inventor's Signature:		Date:	
Residence: Neuss		Country: Germany	Citizenship: Germany
<div style="display: flex; justify-content: space-between; margin-top: 100px;"> <div style="width: 45%;"> <p>_____ Witness</p> </div> <div style="width: 45%;"> <p>_____ Witness</p> </div> </div>			

ASSIGNMENT OF APPLICATION

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

A TELECOMMUNICATION ENCLOSURE MONITORING SYSTEM

- ☒ 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. ; was filed on ;
- ☒ which application is identified as PCT International Patent Application No. **PCT/US2007/067974**; filed **May 2, 2007**;

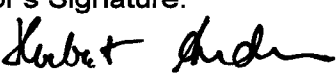
Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office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

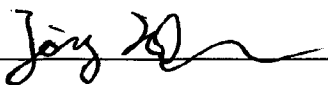


I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

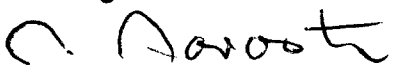
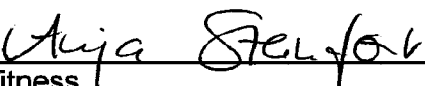

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

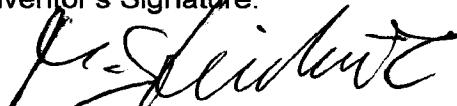
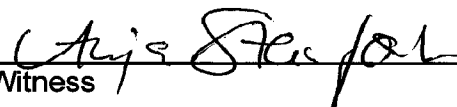

Given Name (first and middle [if any]): RONALD L.		Family Name or Surname: LANGSWEIRD	
Inventor's Signature:		Date:	
Residence: Austin, Texas		Country: USA	Citizenship: United States of America
_____ Witness		_____ Witness	

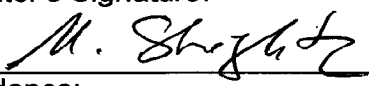
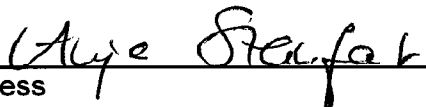

Given Name (first and middle [if any]): HERBERT		Family Name or Surname: ANDERS	
Inventor's Signature: 		Date: 13.10.2008	
Residence: Dortmund		Country: Germany	Citizenship: Germany
_____ Witness		_____ Witness	

Given Name (first and middle [if any]): BERNHARD		Family Name or Surname: SCHNEIDER	
Inventor's Signature: 		Date: 13.10.2008	
Residence: Herne		Country: Germany	Citizenship: Germany
_____ Witness		_____ Witness	

Given Name (first and middle [if any]): JOERG		Family Name or Surname: HAHN	
Inventor's Signature: 		Date: 09.10.2008	
Residence: Neuss		Country: Germany	Citizenship: Germany
Witness 		Witness 	

Given Name (first and middle [if any]): MARIAN		Family Name or Surname: STAROSTA	
Inventor's Signature: 		Date: 08.10.2008	
Residence: Neuss		Country: Germany	Citizenship: Germany
Witness 		Witness 	

Given Name (first and middle [if any]): MANUEL		Family Name or Surname: STEINBRINK	
Inventor's Signature: 		Date: 07/10 '08	
Residence: Neuss		Country: Germany	Citizenship: Germany
Witness 		Witness 	

Given Name (first and middle [if any]): MANFRED		Family Name or Surname: STIEGLITZ	
Inventor's Signature: 		Date: 09.10.2008	
Residence: Neuss		Country: Germany	Citizenship: Germany
 _____ Witness		 _____ Witness	

ASSIGNMENT OF APPLICATION

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

A TELECOMMUNICATION ENCLOSURE MONITORING SYSTEM

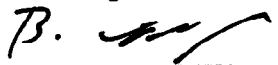


- ☒ for which an application for a United States Patent is being filed contemporaneously herewith;
- ☐ for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
- ☒ which application is identified as PCT International Patent Application No. PCT/US2007/067974; filed May 2, 2007;

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, 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]): BERND		Family Name or Surname: LINDENBECK	
Inventor's Signature: 		Date: 13. 10. 2008	
Residence: Wuppertal		Country: Germany	Citizenship: Germany
 Witness		 Witness	