

RECORDATION FORM COVER SHEET PATENTS ONLY

To: The Director of the U.S. Patent and Trademark Office:

Please record the attached document(s) or the new address(es) below.

1. Name of conveying party(ies)	Execution Date(s):
Yuhas, Donald E.	May 23, 2005
Voth, James H.	May 17, 2005
Schneider, Patrick	April 19, 2005
Foster, Keith H.	April 19, 2005
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

2. Name and address of receiving party(ies):
3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427
Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance:
<input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:

4. Application or patent number(s)	<input type="checkbox"/> This document is being filed together with a new application.
A. Patent Application No(s).	B. Patent No(s).
11/000631	
Additional Numbers Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

5. Name and address to whom correspondence concerning document should be mailed:
Name: Melanie G. Gover Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: (512) 984-4308 Fax Number: 651-736-3833
32692 Customer Number

6. Total number of applications and patents involved:	1
7. Total fee (37 CFR §§ 1.21(h) & 3.41):	\$40.00
<input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
8. Payment Information:	
Deposit Account Number: 13-3723	
Authorized User Name: Melanie G. Gover	

9. Signature:		
Printed Name of Attorney/Agent: Melanie G. Gover Registration No.: 41,793	<u>Melanie Gover</u> Signature	<u>May 27, 2005</u> Date

Pages: Total number of pages including COVER SHEET, attachments, and documents	7
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Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

CH \$40.00 133723 11000631

Case No.: 60010US002

ASSIGNMENT OF APPLICATION

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

ADVANCED CABLE METROLOGY SYSTEM

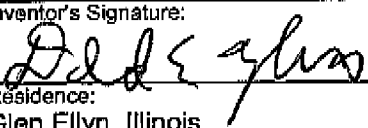
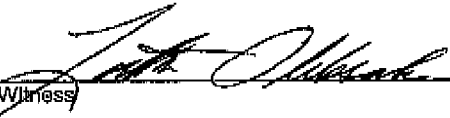
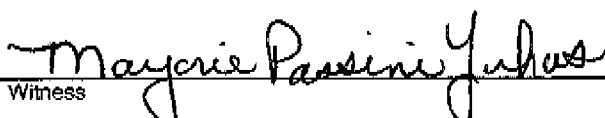
- for which an application for a United States Patent is being filed contemporaneously herewith;
- for which an application for a United States Patent identified as U.S. Patent Application No. 11/000631; was filed on December 1, 2004;
- which application is identified as PCT International Patent Application 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]): DONALD E.		Family Name or Surname: YUHAS	
Inventor's Signature: 		Date: 5-23-05	
Residence: Glen Ellyn, Illinois		Country: USA	Citizenship: United States of America
Witness: 		Witness: 	

Given Name (first and middle [if any]): JAMES H.		Family Name or Surname: VOTH	
Inventor's Signature:		Date:	
Residence: New Ulm, Minnesota	Country: USA	Citizenship: United States of America	
_____ Witness		_____ Witness	

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

Given Name (first and middle [if any]): KEITH H.		Family Name or Surname: FOSTER	
Inventor's Signature:		Date:	
Residence: New Ulm, Minnesota	Country: USA	Citizenship: United States of America	
_____ Witness		_____ Witness	

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- 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. 11/000631; was filed on December 1, 2004;
- which application is identified as PCT International Patent Application No. filed ;

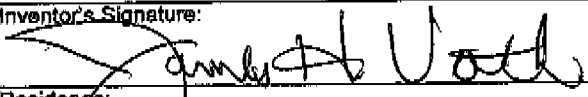

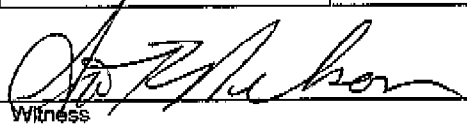
Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office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



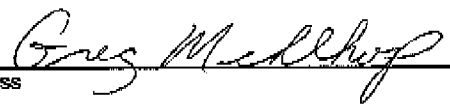
I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

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)): DONALD E.	Family Name or Surname: YUHAS	
Inventor's Signature:	Date:	
Residence: Glen Ellyn, Illinois	Country: USA	Citizenship: United States of America
_____ Witness	_____ Witness	

Given Name (first and middle [if any]): JAMES H.		Family Name or Surname: VOTH	
Inventor's Signature: 		Date: 5-17-05	
Residence: New Ulm, Minnesota SAUK CENTRE		Country: USA	Citizenship: United States of America
Witness 		Witness 	

Given Name (first and middle [if any]): PATRICK		Family Name or Surname: SCHNEIDER	
Inventor's Signature:		Date:	
Residence: Leander, Texas		Country: USA	Citizenship: United States of America
Witness		Witness	

Given Name (first and middle [if any]): KEITH H.		Family Name or Surname: FOSTER	
Inventor's Signature: 		Date: 4-19-05	
Residence: New Ulm, Minnesota		Country: USA	Citizenship: United States of America
Witness 		Witness 	

Case No.: 60010US002

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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;

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]): DONALD E.	Family Name or Surname: YUHAS	
Inventor's Signature:	Date:	
Residence: Glen Ellyn, Illinois	Country: USA	Citizenship: United States of America
_____ Witness	_____ Witness	

Given Name (first and middle [if any]): JAMES H.		Family Name or Surname: VOTH	
Inventor's Signature:		Date:	
Residence: New Ulm, Minnesota		Country: USA	Citizenship: United States of America
_____ Witness		_____ Witness	

Given Name (first and middle [if any]): PATRICK		Family Name or Surname: SCHNEIDER	
Inventor's Signature: <i>Patrick Schneider</i>		Date: 04/19/05	
Residence: Leander, Texas		Country: USA	Citizenship: United States of America
_____ Luzia M. Ramirez Witness		_____ Jennifer M. Thompson Witness	

Given Name (first and middle [if any]): KEITH H.		Family Name or Surname: FOSTER	
Inventor's Signature:		Date:	
Residence: New Ulm, Minnesota		Country: USA	Citizenship: United States of America
_____ Witness		_____ Witness	

FACSIMILEDate: **May 27, 2005**Number of Pages (including cover sheet) **8****32692**

Customer Number

**Office of Intellectual Property Counsel
3M Innovative Properties Company
PO Box 33427
St. Paul, MN 55133-3427 USA**

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**To: United States Patent and Trademark Office
Assignment Recordation Services****Phone: 703-308-9723****Re: U.S. Application No. 11/000631****Fax No. 703-306-5995****From: Melanie G. Gover****Phone: (512) 984-4308****Our Case No.: 60010US002****Fax No. 651-736-3833**