PATENT REEL: 016538 FRAME: 0936

	Case No.: 57958US002
	NTS ONLY
To: The Honorable Commissioner of Patents and Tradema Please record the attached original document(s) or copy to	
1. Name of conveying party(ies)/(Execution Date)	2. Name and address of receiving party(les)
Thomas, Patrick A.       12/08/03         Nelson, John C.       12/09/03         Taplo, Scott M.       12/11/03         Graetz, Michael L.       12/09/03         Gates, Amy J.       12/08/03         Olofson, Peter M.       12/08/03         Brott, Robert L.       12/08/03         Moshrefzadeh, Robert S.       12/10/03         Additional names of conveying party(ies) attached?         Yes       No	3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427 Additional names of receiving party(ies) attached?
3. Nature of Conveyance:         Assignment       Merger         Security Agreement       Change of Name         Other:       Re-record to correct missing inventors on a do previously recorded at Reel 014804/0550 (enclosed is a copy original Recordation Cover Sheet, the Assignments showing al inventors' signatures and a copy of USPTO Document No. 700	of the
<ol> <li>Application number(s) or patent number(s):</li> <li>If this document is being filed together with a new application</li> </ol>	on, the execution date of the application is :
A. Patent Application No(s). 10/733066	B. Patent No(s).
Additional Numbers A	\ttached? 🗋 Yes 🖾 No
5. Name and address of party to whom correspondence concerning document should be mailed: Name: George W. Jonas Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: (651) 733-2297	6. Total number of applications and patents involved: 1
32692 Customer Number	7. Total fee (37 CFR § 3.41): \$40.00 Enclosed Authorized to be charged to deposit account
	8. Deposit Account Number: 13-3723
DO NOT U	SE THIS SPACE
9. Statement and Signature To the best of my knowledge and bellef, the foregoing informat original document. Charges to deposit account are authorized Printed Name of Attorney/Agent: George W. Jonas Registration No.: 46,811 Pages: Totel number of pages including COVER SHEET, atta	7/15/05 Date
	vith required cover sheet information to:
Mail Stop Assignm Director of the United Stat P.O	ent Recordation Services les Patent and Trademark Office . Box 1450 , VA 22313-1450 <b>ΡΔΤΕΝΤ</b>

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To: The Honorable Commissioner of Patents and Tradem	nar <b>ks</b>		
Please record the attached original document(s) or copy t	thereot.		
1. Name of conveying party(les)/(Execution Date)		2. Name and address of receiving pa	ffy( <b>ie</b> s):
Thomas, Patrick A. December 8, 2003			
Nelson, John C. December 9, 2003		3M Innovative Properties Company	
Tapio, Scott M. December 11, 2003	3	P.O. Box 33427	
Graetz, Michael L. December 9, 2003		St. Paul, Minnesota 55133-3427	AT - 格雅·
Gates, Amy J. December 8, 2003			
Olofson, Peter M. December 8, 2003			
Additional names of conveying party(ies) attached?		Additional names of receiving party(ies) attai	dhed?
3. Nature of Conveyance:			
Assignment 🗍 Merger			
Security Agreement Change of Name	e -		
Other:			
if this is a request for correction of a previously recorded document, previously recorded assignment and previous Notice of Recordation is encl	a copy of the osed.		
4. Application number or patent number:			
This document is being filed contemporaneously with a new procession of the second	ew patent ap	plication.	
This document is to be recorded against the following pate	ent applicatio	on or patent:	
Enter Patent Cooperation Treaty (PCT) application number	er <u>only</u> if a Us	SSN has <u>not</u> been assigned:	
Additional Numbers Attached? 🔲 Yes 🖾 No			
5. Name and address of party to whom correspondence	6. Total	number of applications	
concerning document should be mailed:			
Name: Stephen W. Buckingham	and pa	atents involved: 1	
Office of Intellectual Property Counsel	1		
3M Innovative Properties Company			
Phone Number: (651) 733-3379			
	7. Total	ree (37 CFR § 3.41): \$40.00	
		Enclosed	
32692		Authorized to be charged to deposit account	
PATENT TRADEMARK OFFICE			
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9. Statement and Signature			
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onginal document. Charges to deposit account are authorized	, as indicated	i herein.	
Printed Name of Attorney/Agent:	11		
Registration No.: 37,988 Signature	<u>m</u>	<u>11- Oec-2003</u>	
Pages: Total number of pages including COVER SHEET, afta	chmente an	Date	23. (C. ) 24.35. (C. ).
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Case No.: 57\$58 \$5002

#### ASSIGNMENT OF APPLICATION

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

## MICROSTRUCTURED SCREEN WITH LIGHT ABSORBING MATERIAL AND METHOD OF MANUFACTURING

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. ; 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 add all improvements in the said invention made by me or made jointly with others (provided any such improvement is nade during, or within one year after the termination of, my employment by 3M COMPANY and any of its existing or uture 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 Modes, 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 heid 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 normalees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Nodes, 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.

		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Given Name (first and middle [if any]): Patrick A.	Family Name or Suman Thomas	ne:
Inventer & Signature:	Date:	
Residence: Maplewood, Minnesota	12/9/03 Country: USA	Citizenship: United States of America
STATE OF MINNESOTA ) ) ss. COUNTY OF RAMSEY ) On this 24 day of December Patrick A. Thomas, and who executed the foregoing aforesaid.	instrument, as said person's fre	e act and deed, on the day and year
(Seal) MICHELLE L. MURPHY MOTARY PUBLIC - MINNESOTA My Comm. Expires Jan. 31, 2005	Notary Public	D. Murphy,
		PATENT

REEL: 016538 FRAME: 093

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Given Name (first and middle [if any]): John C.	Family Name or Suma Nelson	ame:
nventor's Signature:	Date:	
Residence: The Sea Ranch, California	Country: USA	Cltizenship; United States of America
STATE OF CALIFORNIA ) ) ss.	· · · · · · · · · · · · · · · · · · ·	
COUNTY OF)		
On this day of ohn C. Nelson, and who executed the foregoing in foresaid.	nstrument, as said person's free	e personally appeared the above-named act and deed, on the day and year
Seal)	Notary Public	
Siven Name (first and middle [if any]): Scott M.	Family Name or Surna Taplo	ame:
Scale 200	Date: 12/11/53	
esidence:	Country:	Citizenship:
alcon Heights, Minnesota	USA	United States of America
TATE OF MINNESOTA ) ) ss.	USA	United States of America
TATE OF MINNESOTA ) ) ss. OUNTY OF RAMSEY } On this 11Hh, day of Decembe	21 2004. before me	personally appeared the above-memory
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TATE OF MINNESOTA       } ss.         COUNTY OF RAMSEY       December         On this //Hh _ day of       December         Scott M. Taplo, and who executed the foregoing ins         foresaid.         Seal)       SHANNON M. BRUCE         NoTARY PUBLIC	$\frac{2004}{strument, as said person's free ad Mannon Notary Public Family Name or Surna Graetz Date: 12/9/2.00 Country: USA$	personally appeared the above-name of and deed, on the day and year <u>M. Buce</u> Ime: 3 Citizenship: United States of America
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intate of MINNESOTA ) ss. COUNTY OF RAMSEY On this ///// day of <u>Decembre</u> cott M. Taplo, and who executed the foregoing ins foresald. Seal) SHANNON M. BRUCE MINNESOTA My comm. Expires Jan. 31 2005 Inchael L. Ventor's Signature: Multiple Strand Minnesota Inchael L. Ventor's Signature: Multiple Strand Minnesota TATE OF MINNESOTA Ss. OUNTY OF RAMSEY	$\frac{2004}{strument, as said person's free ad Mannon Notary Public Family Name or Surna Graetz Date: 12/9/2.00 Country: USA$	personally appeared the above-name of and deed, on the day and year <u>M. Butc</u> ime: 3 Clitzenship: United States of America personally appeared the above-name a act and deed, on the day and year

Given Name (first and middle [if any]): Amy J.	Family Name or Suma Gates	me:	
Inventor's Signature: any A Sates	Date:  ス - 8 - 03		
Residence: Cottage Grove, Minnesota	Country: USA	Citizenship: United States of A	merice
STATE OF MINNESOTA ) ss. COUNTY OF RAMSEY On this <u>Stime</u> day of <u>TARMUPEY</u> Army J. Gates, and who executed the foregoing instru- aforesaid. (Seal) MICHELLE L. MURPHY NOTARY PUBLIC - MINNESOTA My Comm. Expires Jan. 31, 2005		personally appeared the abov and deed, on the day and ye <u>for the day and ye</u>	e- <b>deme</b>
Given Name (first and middle (if any)):	Family Name or Suma	me:	
Peter M. Inventor's Signature:	Olofson Date: 12-8-0	3	
Residence: Oakdale, Minnesota	Country: USA	Citizenship: United States of A	marica
STATE OF MINNESOTA ) \$8. COUNTY OF RAMSEY On this <u>Comm</u> day of <u>Counterbar</u> Peter M. Olofson, and who executed the foregoing in aforesaid. (Seal) MICHELLE L. MURPHY MICHELLE L. MURPHY MOTARY PUBLIC - MINNESOTA My Comm. Expires Jan. 31, 2005		act and deed, on the day and $p(t) = 0$	
Assignment	Page 3 of 4 RE	PATENT <sub>Case</sub> EL: 016538 FRAME:	No: 57680500 0940

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Given Name (first and middle [if any]): Robert L.	Family Name or Sumame: Brott		
Inventor's Signature:	Date: /2-82	.003	
Residence: Woodbury, Minnesota	Country: USA	Citizenship: United States of A	merica
STATE OF MILLICECLA ) SS. ) SS. ) COUNTY OF KAN YELL	· ·	<b>I</b>	
On this <u>CH</u> day of <u>DCCCHARC</u> <u>HODETAL</u> , and who executed the day and year aforesaid (Seal) MICHELLE L. MURPHY NOTARY PUBLIC - MINNESOTA My Comm. Expires Jan. 31, 2005	<u>2005</u> , before me perso e foregoing instrument, as said pers <u>(UUUUU</u> A) Notary Public		e-name on the —
Given Name (first and middle [if any]): Robert S.	Family Name or Surname: Moshrefzadeh	· · ·	
Inventor's Signature:	Date: 12/10/2043		
Residence: Oakdale, Minnesota	Country: USA	Citizenship: United States of A	merica
STATE OF MINNESOTA ) ) ss. COUNTY OF RAMSEY ) On this <u>10<sup>#</sup></u> ' day of <u>1-eccen.bet</u> Robert S. Moshrefzadeh, and who executed the foreg year aforesaid. (Seal) MICHELLE L. MURPHY NOTARY PUBLIC - MINNESOTA My Comp. Expires Jan. 31, 2005	, <u>2003</u> , before me perso joing instrument, as said person's fr <u>Michelo</u> <u>K</u> Notary Public	ee act and deed, on the	e-name day anc
Assignment	Page 4 of 4 REEL:	PATENT 016538 FRAME:	No: 579805 0941

REEL: 016538 FRAME: 0942

Case No.: 57958U\$002

### ASSIGNMENT OF APPLICATION

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

## MICROSTRUCTURED SCREEN WITH LIGHT ABSORBING MATERIAL AND METHOD OF MANUFACTURING

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. 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 COMPA, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint aul, 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 are all improvements in the said invention made by me or made jointly with others (provided any such improvement is nade during, or within one year after the termination of, my employment by 3M COMPANY and any of its existing or sure 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 Modes, 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:

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 cher 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 hay 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]): Patrick A.	Family Name or Sum Thomas	ame:
Inventor's Signature:	Date:	
Residence:	Country;	Citizenship:
Maplewood, Minnesota	USA	United States of America
STATE OF MINNESOTA		
) ss. COUNTY OF RAMSEY )		
On this day of	<b>b</b> + <b>f</b> + + +	
	, Detore me	Personally appeared the above-name
Patrick A. Thomas, and who executed the fo	oregoing instrument, as said person's f	e personally appeared the above-named ree act and deed, on the day and year
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Given Name (first and middle (if any)): John Q	Family Name or Surnar Nelson	ne:	
Inventor's Signature:	Date: 12/9/03		
Residence: The Sea Ranch, California	Country: USA	Citizenship: United States of An	nerica
STATE OF CALIFORNIA ) ) ss. COUNTY OF <u>S</u>	· ·	i	
On this <u>th</u> day of <u>Acce by</u> ohn C. Nelson, and who executed the foregoing foresaid	, z+• 7, before me instrument, as said person's free a	personally appeared the above ict and deed, on the day and ye	-named ar
Seal) Z Z CHRIS MARK KRUPANSKY NOTARY PUBLIC - CAUF COUNTY OF SONOMA My Comm. Exp. June 11, 2005		оттори на Алган <u>и — А</u>	
iven Name (first and middle (if any]): cott M.	Family Name or Sumar Tapio	ne:	
iventor's Signature;	Date:		
esidence: alcon Heights, Minnesota	Country: USA	Citizenship: United States of Arr	ierica
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cott M. Tapio, and who executed the foregoing ir oresald. seal) ven Name (first and middle [if any]): ichael L. ventor's Signature:	Notary Public Family Name or Suman Graetz	and deed, on the day and year	
cott M. Tapio, and who executed the foregoing in foresald. Seal) iven Name (first and middle [if any]): lichael L. ventor's Signature: esidence: tillwater, Minnesota TATE OF MINNESOTA ) } \$3.	Notary Public Family Name or Suman Graetz Date: Country:	ne:	
cott M. Tapio, and who executed the foregoing in oresald. ieal) ven Name (first and middle [if any]): ichael L. ventor's Signature: isidence: illwater, Minnesota TATE OF MINNESOTA } ss. DUNTY OF RAMSEY On this day of ichael L. Graetz, and who executed the foregoin	Astrument, as said person's free act         Notary Public         Family Name or Suman         Graetz         Date:         Country:         USA	Citizenship: United States of Am	erica
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iven Name (first and middle [if any]):	Family Name or Sur	name;	
my J.	Gates		
ventor's Signature:	Date:		
esidence:	Country:	Citizenship:	
ottage Grove, Minnesota	USA	United States of	America
TATE OF MINNESOTA			
) ss. DUNTY OF RAMSEY )			
On this day of my J. Gates, and who executed the foregoin pressid	, before m	e personally appeared the abo	we-name
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ven Name (first and middle [if any]): eter M.	Family Name or Surn	hame:	
	Olofson		
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sidence: akdale, Minnesota	Country:	Citizenship:	e e
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Robert L.	Family Name or Sum Brott	ant.	
inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Woodbury, Minnesota	USA	United States	of America
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) ss. COUNTY OF )			
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On this day of, and who exect	, before me	e personally appeared the	above-name
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Seal)			
	Notary Public		
Biven Name (first and middle (if any)):	Family Name or Sum	ame:	
Robert S.	Moshrefzadeh		
nventor's Signature:	Date:		
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Residence:	Country:	Citizenship:	
	USA	United States	of America
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FACSIN Date: - JU1415,2005 32692	MILE Number of Pages (including cover sheet) 2- Office of Intellectual Property Counsel 3M Innovative Properties Company
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RECORDED: 07/15/2005