

Case No.: 57958US002

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To: The Honorable Commissioner of P					
Please record the attached original do	cument(s) or copy th	ereof.			
1. Name of conveying party(ies)/ <u>(E</u>	<u>xecution Date)</u>		2. Nan	ne and address of receiving pa	rt <b>©ies</b> ):
	December 8, 2003 December 9, 2003		3M Inn	ovative Properties Company	S. P.1
l '	December 11, 2003			ox 33427	33⊂
l '	December 9, 2003		St. Pau	ıl, Minnesota 55133-3427	° C
	December 8, 2003				10/
Olofson, Peter M.	December 8, 2003				22,
Additional names of conveying party(ies) ☐ Yes ☒ No	attached?			nal names of receiving party(ies) atta No	ached?
3. Nature of Conveyance:					
Security Agreement C Other:	Merger Change of Name				
If this is a request for correction of a previous previously recorded assignment and previous N					
4. Application number or patent number.  This document is being filed contemply. This document is to be recorded again the Enter Patent Cooperation Treaty (PC Additional Numbers Attached? Yes	poraneously with a new linst the following pate CT) application number	nt applicati	on or pate	ent:	
5. Name and address of party to whom	n correspondence	6. Total	number	r of applications	
concerning document should be m Name: Stephen W. Buckingha Office of Intellectual Property Co 3M Innovative Properties Comp Phone Number: (651) 733-3379	am ounsel any			nvolved: 1	
		7. Total	fee (37	CFR § 3.41): \$40.00	
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PATENT TRADEMARK OFFICE					
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9. Statement and Signature	,				
To the best of my knowledge and belief, original document. Charges to deposit a	the foregoing informat	ion is true a , as indicate	and corre	ct and any attached copy is a true co.	opy of the
Printed Name of Attorney/Agent:	1/11()	1.1			
William D. Miller	WW Ja	in	<del></del>	11-0ec-2003	
Registration No.: 37,988	Signature	ohmenta e	nd deave	Date nents	
Pages: Total number of pages including	documents to be recorded w				***
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Director of the Solited States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

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**PATENT** 

**REEL: 014804 FRAME: 0550** 

Case No.: 57958US002

## **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	r which an application for a United States Patent is being filed contemporaneously herewith; r which an application for a United States Patent identified as U.S. Patent Application No.; was filed on; hich 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 by 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]):	Family Name or Surname:	
Patrick A.	Thomas	
Fallick A.	Inomas	
1 A Cinnet	Deter	
Inventor's Signature:	Date:	
Laterck A. I looms	12/8/03	
Residence:	Country:	Citizenship:
Maplewood, Minnesota	USA	United States of America
mapiowood, minitooda		
STATE OF MINNESOTA )		<del>!</del>
) ss.		
COUNTY OF RAMSEY )	,	
On this day of	, $200\overline{\mathcal{S}}$ , before me persona	lly appeared the above-named
Patrick A. Thomas, and who executed the foregoing instrume	ent, as said person's free act ar	nd deed, on the day and year
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Assignment

Page 1 of 4

PATENT

Case No.: 57958US002

REEL: 014804 FRAME: 0551

Given Name (first and middle [if any]):	Family Name or Surname:	
John C.	Nelson	
In and the Oire of the Company	Date	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
The Sea Ranch, California	USA	United States of America
STATE OF CALIFORNIA )		
) ss.		
COUNTY OF)		
On this day of	,, before me persona	lly appeared the above-named
John C. Nelson, and who executed the foregoing instrument,	as said person's free act and d	eed, on the day and year
aforesaid.	·	
40 . 13		
(Seal)		
ľ	Notary Public	
Given Name (first and middle [if any]):	Family Name or Surname:	
Scott M.	Tapio	
Sook III.	Таріо	
Inventor's Signature:	Date:	
Soft	12/11/03	
of the po		0
Residence:	Country:	Citizenship:
Falcon Heights, Minnesota	USA	United States of America
STATE OF MINNESOTA )		
) ss.		
COUNTY OF RAMSEY )		
On this 11th day of December	TAU hofore me nomene	the appeared the above named
Scott M. Tapio, and who executed the foregoing instrument, as	, Delore file persona	ny appeared the above-named
	s salu person's nee act and de	ed, on the day and year
<b>E</b>	-01	$\rho$
(Seal) SHANNON M. BRUCE	hannon M.	Duce
NOTARY PUBLIC MINNESOTA  My Comm. Expires Jan. 31 2005	Notary Public	
wy Comm. Expires San. 5. 2005	•	
Given Name (first and middle [if any]):	Family Name or Surname:	
Michael L.	Graetz	
Inventox's,Signature:	Date:	
7/1/2019/	( )	
"I Waran L Dry	12/9/2003	
Residence:	Country:	Citizenship:
Stillwater, Minnesota	USA	United States of America
STATE OF MINNESOTA )		
(		
) ss. COUNTY OF RAMSEY )		
Oth December	) 'an /3	
On this 9th day of December	, <u>&amp; VC</u> , before me persona	lly appeared the above-named
Michael L. Graetz, and who executed the foregoing instrument	t, as said person's free act and	l deed, on the day and year
aforesaid.		_
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NOTARY PUBLIC - MINNESOTA	Notary Public	
My Comm. Expires Jan. 31, 2005		

Given Name (first and middle [if any]):	Family Name or Surname:	
Amy J.	Gates	
Inventor's Signature:	Date:	
any of Dates	12-8-03	
Residence: U	Country:	Citizenship:
Cottage Grove, Minnesota	USA	United States of America
STATE OF MINNESOTA )  ss.  COUNTY OF RAMSEY )  On this Ody of DOWNORY	hm5 hafara ma namana	illy appeared the above-named
	, before me persona	my appeared the above-named
Amy J. Gates, and who executed the foregoing instrument, as	s said person's tree act and de	ed, on the day and year
aforesaid.	1-, 41	, ,
(Seal) MICHELLE L. MURPHY	Michell Lh Notary Public	urphy
(Seal) NOTARY PUBLIC - MINNESOTA	Notary Public	
	riolary r dollo	( )
<b>*******************</b>		Marie V
Given Name (first and middle [if any]):	Family Name or Surname:	
Peter M.	Olofson	
Lavoratorio Cilmoturo	Deter	
Inventor's Signature:	Date:	
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Residence:	Country:	Citizenship:
,		Citizenship: United States of America
Oakdale, Minnesota	Country:	Citizenship: United States of America
,	Country:	•
Oakdale, Minnesota  STATE OF MINNESOTA ) ) ss.	Country:	•
Oakdale, Minnesota STATE OF MINNESOTA )	Country: USA	•

MICHELLE L. MURPHY
NOTARY PUBLIC - MINNESOTA
My Comm. Expires Jan. 31, 2005

Assignment

aforesaid.

(Seal)

Page 3 of 4

**PATENT** 

Case No.: 57958US002

REEL: 014804 FRAME: 0553

Given Name (first and middle [if any]):	Family Name or Surname:	
Robert L.	Brott	
Inventor's Signature:	Date:	
Potter & test	12-8-20	
Residence:	Country:	Citizenship:
Woodbury, Minnesota	USA	United States of America
STATE OF MINKSULA )		
COUNTY OF RAMBEY)		
COUNTY OF THE CO	2003	lly appeared the above-named
	, <u></u> , before me persona	ily appeared the above-hamed
Robert L. Brott , and who executed the foregoday and year aforesaid	ong manument, as said person	, o noo dot dna dood, on the
(Soal) MICHELLE L. MURPHY	· highard & l	11150h11
	L MUCHON OUT	may is
My Comm. Expires Jan. 31, 2005	Notary Public	( \
<b>******************************</b>		
Given Name (first and middle [if any]):	Family Name or Surname:	
Robert S.	Moshrefzadeh	
Inventor's Signature: , /	Date:	
	12/10/2063	
/m //		Citizenship:
Residence:	Country:	United States of America
Oakdale, Minnesota	JOSA	Office States of America
STATE OF MINNESOTA )		
) ss.		
COUNTY OF RAMSEY )	2027	
On this 10th, day of 1 ecember	, <u>2005</u> , before me persona	ally appeared the above-named
Robert S. Moshrefzadeh, and who executed the foregoing in	strument, as said person's free	e act and deed, on the day and
year aforesaid.	$\mathcal{A}^{-1}$	. 1 -
(Seal) MICHELLE L. MURPHY NOTARY PUBLIC - MINNESOTA	michello A	urphy

Case No.: 57958US002

## 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
WWW. WOLL AND THE CONTROL
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 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 by 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]): Patrick A.	Family Name or Surname: Thomas	
Inventor's Signature:	Date:	
Residence: Maplewood, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA ) ) ss. COUNTY OF RAMSEY )	<del></del>	-1
On this day of Patrick A. Thomas, and who executed the foregoing instrum aforesaid.	_,, before me persor ent, as said person's free act a	nally appeared the above-named and deed, on the day and year
(Seal)	Notary Public	

Assignment

Page 1 of 4

**PATENT** 

Case No.: 57958US002

Given Name (first and middle [if any]): John 🗘.	Family Name or Surname: Nelson	
	14010011	,
Inventor's Signature:	Date: 12/9/03	
Residence: The Sea Ranch, California	Country: USA	Citizenship: United States of America
STATE OF CALIFORNIA ) ) ss.		
COUNTY OF Samena	<b></b>	
John C. Nelson, and who executed the foregoing instrument,		lly appeared the above-named eed, on the day and year
official SEAL - 1308682	<i>N</i>	
(Seal) CHRIS MARK KRUPANSKY NOTARY PUBLIC - CALIF. COUNTY OF SONOMA My Comm. Exp. June 11, 2005	Notary Public	
Given Name (first and middle [if any]):	Family Name or Surname:	
Scott M.	Tapio	
Inventor's Signature:	Date:	
Desidence	01	
Residence: Falcon Heights, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA )	I	
COUNTY OF RAMSEY )		
On this day of	,, before me personal	lly appeared the above-named
Scott M. Tapio, and who executed the foregoing instrument, as aforesaid.	s said person's free act and de	ed, on the day and year
(Seal)	Notary Public	
ľ	votary Public	
Given Name (first and middle [if any]):	Family Name or Surname:	
Michael L.	Graetz	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
Stillwater, Minnesota	USA	United States of America
STATE OF MINNESOTA ) ) ss.	· · · · · · · · · · · · · · · · · · ·	
COUNTY OF RAMSEY )		
On this day of	,, before me personal t, as said person's free act and	lly appeared the above-named deed, on the day and year
(Seal)		
1	Notary Public	

Assignment

Page 2 of 4

PATENT REEL: 014804 FRAME: 0556

Case No.: 57958US002

Given Name (first and middle [if any]):	Family Name or Surname:	
Amy J.	Gates	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
Cottage Grove, Minnesota	USA	United States of America
STATE OF MINNESOTA ) ss.		
COUNTY OF RAMSEY )		
On this day of	,, before me persona	lly appeared the above-named
Amy J. Gates, and who executed the foregoing instrument, a aforesaid.	s said person's free act and de	ed, on the day and year
(Seal)		
	Notary Public	
Given Name (first and middle [if any]):	Family Name or Surname:	
Given Name (first and middle [if any]): Peter M.	Family Name or Surname: Olofson	
Peter M.	Olofson	
Peter M.  Inventor's Signature:  Residence:	Olofson  Date:  Country:	Citizenship:
Peter M. Inventor's Signature:	Olofson  Date:	Citizenship: United States of America
Peter M.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA )	Olofson  Date:  Country:	· F
Peter M.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ) ss.	Olofson  Date:  Country:	l : F
Peter M.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY )	Olofson  Date:  Country: USA	United States of America
Peter M.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY )	Olofson  Date:  Country: USA	United States of America
Peter M.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY On this day of  Peter M. Olofson, and who executed the foregoing instrument	Olofson  Date:  Country: USA	United States of America
Peter M.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY ) On this day of  Peter M. Olofson, and who executed the foregoing instrument aforesaid.  (Seal)	Olofson  Date:  Country: USA	United States of America

Assignment

Page 3 of 4

PATENT REEL: 014804 FRAME: 0557

Case No.: 57958US002

Given Name (first and middle [if any]):	Family Name or Surname:	
Robert L.	Brott	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
Woodbury, Minnesota	USA	United States of America
STATE OF ) ss.		
COUNTY OF )		
On this day of, and who executed the forego	,, before me persona	lly appeared the above-named
day and year aforesaid.	ning instrument, as said persor	is nee act and deed, on the
(Seal)		
	Notary Public	
•		
Given Name (first and middle [if any]):	Family Name or Surname:	
Given Name (first and middle [if any]): Robert S.	Family Name or Surname: Moshrefzadeh	
Robert S.	Moshrefzadeh	
Robert S.  Inventor's Signature:	Moshrefzadeh	
Robert S.  Inventor's Signature:  Residence:	Moshrefzadeh  Date:  Country:	Citizenship:
Robert S.  Inventor's Signature:	Moshrefzadeh  Date:	Citizenship: United States of America
Robert S.  Inventor's Signature:  Residence: Oakdale, Minnesota	Moshrefzadeh  Date:  Country:	
Robert S.  Inventor's Signature:  Residence:	Moshrefzadeh  Date:  Country:	
Robert S.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA )	Moshrefzadeh  Date:  Country:	
Robert S.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY )	Moshrefzadeh  Date:  Country: USA	United States of America
Robert S.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ) ss.	Moshrefzadeh  Date:  Country: USA  ,, before me persona	United States of America  Ily appeared the above-named
Robert S.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY ) On this day of Robert S. Moshrefzadeh, and who executed the foregoing insyear aforesaid.	Moshrefzadeh  Date:  Country: USA  ,, before me persona	United States of America  Ily appeared the above-named
Robert S.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY ) On this day of Robert S. Moshrefzadeh, and who executed the foregoing insyear aforesaid.  (Seal)	Moshrefzadeh  Date:  Country: USA  ,, before me persona strument, as said person's free	United States of America  Ily appeared the above-named
Robert S.  Inventor's Signature:  Residence: Oakdale, Minnesota  STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY ) On this day of Robert S. Moshrefzadeh, and who executed the foregoing insyear aforesaid.  (Seal)	Moshrefzadeh  Date:  Country: USA  ,, before me persona	United States of America  Ily appeared the above-named

Assignment

Page 4 of 4 Case No.: 57958US002

PATENT REEL: 014804 FRAME: 0558