Case No.: 60160US002 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. Name and address of receiving party(ies): Execution Date(s): 1. Name of conveying party(ies) 3M Innovative Properties Company January 7, 2005 Ouderkirk, Andrew J. January 11, 2005 P.O. Box 33427 Denny G. Aeschliman St. Paul, Minnesota 55133-3427 January 11, 2005 Tran, Hung T. January 12, 2005 Epstein, Kenneth A. January 11, 2005 Meis, Michael A. January 11, 2005 Schultz, John C. Additional name(s) of receiving party(ies) attached? ☐ Yes
☐ No. Additional name(s) of conveying party(ies) attached? ☐ Yes 🗵 No 3. Nature of conveyance: Assignment Merger Change of Name Security Agreement Other: This document is being filed together with a new application. 4. Application or patent number(s) B. Patent No(s). A. Patent Application No(s). 10/982651 Additional Numbers Attached?

Yes

No 6. Total number of applications Name and address to whom correspondence concerning document should be mailed: and patents involved: Name: Stephen C. Jensen Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: (651) 736-3369 7. Total fee (37 CFR §§ 1.21(h) & 3.41): \$40.00 Fax Number: 651-736-3833 ☐ Enclosed Authorized to be charged to deposit account 8. Payment information: Customer Number Deposit Account Number: 13-3723 Authorized User Name: Stephen C. Jensen 9. Signature: Printed Name of Attorney/Agent: 13 Jan 2005 Stephen C. Jensen Registration No.: 35,207

Pages: Total number of pages including COVER SHEET, attachments, and documents

Documents to be recorded (Including cover sheet) should be faxed to (703) 308-5995, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

Case No.: 60160US002

ASSIGNMENT OF APPLICATION

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

ILLUMINATION ASSEMBLY USING CIRCUITIZED STRIPS
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. 10/982651; was filed on November 5, 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]): Andrew J.	Family Name or Surnal Ouderkirk	m e :
Inventor's Signature	Date: 1/7/05	>
Residence: Woodbury, Minnesota	Country: USA	Ckizenship: United States of America
STATE OF MINNESOTA) ss. COUNTY OF RAMSEY On this day of	before me ument, as said person's Usualla Notari fublic	personally appeared the above-named free act and deed on the day and year

Page 1 of 3 PATENT Case No.: 60160US002

REEL: 015594 FRAME: 0795

Denny G.	[if any]):	Family Name or Surn Aeschliman	ame:
nventor's Signature:		Date:	ALAKATYAN TITI I
Residence: Austin, Texas		Country: USA	Citizenship: United States of America
STATE OF TEXAS)		
COUNTY OF TRAVIS) 88.)		
On thisday	y of	, before mo	e personally appeared the above-named n's free act and deed, on the day and yea
Denny G. Aeschilman, a aforesaid.	and who executed the forego	Jing instrument, as said persor	18 Tibe act and deed, on the day and yes
(Seal)		Notary Public	
Given Name (first and middle Hung T.	(if any)):	Family Name or Surr Tran	name:
		Date:	//MATERIAL - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Zung t.	Tran	1/11/	
Residence: Woodbury, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)		
COUNTY OF RAMSEY	yor Januaru	2005 before m	ne personally appeared the above-named
Hung T. Tran, and who e	executed the foregoing instru	ment, as said person's free ac	ct and deed, on the day and year
aforesaid.	DIA M. CAHILL	La soli a	mahall
	Notary Public		'Il war
(Seal)	Minnesota P	Notary Public	
(Seal)		Notary Public	
(Seal)	Minnesota P	Notary Public	
(Seal) My Con	Minnesota minissien Expires Jan. 31, 2005	Family Name or Sur	name:
Given Name (first and middle Kenneth A.	Minnesota minissien Expires Jan. 31, 2005	Epstein	name:
Given Name (first and middle Kenneth A.	Minnesota minissien Expires Jan. 31, 2006	Epstein Date: , ,	
Given Name (first and middle Kenneth A. Inventor's Signature:	Minnesota minissien Expires Jan. 31, 2005	Date: 1/12/0 4	5
Given Name (first and middle Kenneth A.	Minnesota minissien Expires Jan. 31, 2006	Epstein Date: , ,	
Given Name (first and middle Kenneth A. Inventor's Signature: Xmall G. Residence:	Minnesota minissien Expires Jan. 31, 2006 [if any]): \$200000000000000000000000000000000000	Date: 1/12/0 4	Citizenship:
Given Name (first and middle Kenneth A. Inventor's Signature: Zamada G. Residence: St. Paul, Minnesota	Minnesota minissien Expires Jan. 31, 2006 [if any]):	Date: 1/12/0 4	Citizenship:
Given Name (first and middle Kenneth A. Inventor's Signature: X. Residence: St. Paul, Minnesota STATE OF MINNESOTA COUNTY OF RAMSEY On this 124 dar Kenneth A. Epstein, and	Minnesota minissien Expires Jan. 31, 2006 [if any]):	Epstein Date: ///2/0 4 Country: USA Defore m	Citizenship:
Given Name (first and middle Kenneth A. Inventor's Signature: County OF RAMSEY On this 125 dar Kenneth A. Epstein, and aforesaid.	Minnesota minissien Expires Jan. 31, 2006 [if any]):	Epstein Date: ///2/0 4 Country: USA Defore m	Citizenship: United States of America ne personally appeared the above-name

PATENT Case No.: 60160US002

Given Name (first and middle [if any]):	Family Name or Sur	name:
Michael A.	Meis	
Inventor's Signature	Date:	25
Residence	Country:	Citizenship:
Stillwater, Minnesota	USA	United States of America
On this day of factor of Meis, and who executed the foregoing instance aforesaid. STEPHEN C. JENSEN NOTARY PUBLIC - MINNESOTA MY COMMISSION EXPIRES	trument, as said person's free	ne personally appeared the above-name e act and deed, on the day and year
JANUARY 31, 2005	Family Marra or Cur	
Given Name (first and middle [if any]): John C.	Family Name or Sur Schultz	name;
inventor's Signature:	Date:	

Given Name (first and middle (if any)): John C.	Schultz	name;
Inventor's Signature:	Date: ////	05
Residence:	Country:	Citizenship:
Afton, Minnesota	USA	United States of America
STATE OF MINNESOTA)) 85. COUNTY OF RAMSEY) On this day of	2005, before m	ne personally appeared the above-named e act and deed, on the day and year
(Seal) LYDIA M. CAHILL Notary Public Minnesota My Commission Expires Jan. 31, 2006	Notary Olblic	mahill

PATENT Case No.: 60160US002

Page 3 of 3

Case No.: 60160US002

ASSIGNMENT OF APPLICATION

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

ILLUMINATION ASSEMBLY USING CIRCUITIZED STRIPS
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. 10/982651; was filed on November 5, 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]): Andrew J.	Family Name or Sun Ouderkirk	name:
Inventor's Signature:	Date:	and the Parish Programme of th
Residence: Woodbury, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) \$8. COUNTY OF RAMSEY)		
On this day of Andrew J. Ouderkirk, and who executed the foreg aforesaid.	oing instrument, as said person'	ne personally appeared the above-named is free act and deed, on the day and year
(Seal)	Notary Public	

PATENT Case No.: 60160US002

REEL: 015594 FRAME: 0798

Given Name (first and middle [if any]): Denny G.	Family Name or Surname: Aeschliman	
Neurit & alexalleman	Date: 021 11 2	005
Residence: Austin, Texas	Q≨untry: J	Citizenship: United States of America
STATE OF TEXAS) ss.		- 11 to 12 (2000) 11 to 12 to
COUNTY OF TRAVIS	. Zහර , before me personali	y appeared the above-named
On this 1/7 day of JANUARY Denny G. Aeschliman, and who executed the foregoing instaforesaid.	strument, as said person's free act	and deed, on the day and year
(Seal) CHRISTINE THIELEPAPE MY COMMISSION EXPIRES January 9, 2008	Notary Public	
Given Name (first and middle [if any]): Hung T.	Family Name or Surname: Tran	
Inventor's Signature:	Date:	
Residence: Woodbury, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this day of Hung T. Tran, and who executed the foregoing instrument, aforesaid.	, before me personali as said person's free act and deed	ly appeared the above-named i, on the day and year
(Seal)	Notary Public	<u></u>
Given Name (first and middle [if any]): Kenneth A.	Family Name or Surname: Epstein	
Inventor's Signature:	Date:	
Residence: St. Paul, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) \$8.		
COUNTY OF RAMSEY)	h. f	h
On this <u>day of</u> Kenneth A. Epstein, and who executed the foregoing instr aforesaid.	,, before me personal ument, as said person's free act an	iy appeared the above-named id deed, on the day and year
(Seal)	Notary Public	

Page 2 of 3

PATENT Case No.: 60160US002

REEL: 015594 FRAME: 0799

Given Name (first and middle [if any]):		Family Name or Sun	name:	
Michael A. Inventor's Signature:		Meis		
		Date:		
Residence: Stillwater, Minnesota		Country: USA	Citizenship: United States of America	
STATE OF MINNESOTA)		at'i Na National	11.277//	
) ss.				
COUNTY OF RAMSEY)		hefore re	ne personally appeared the above-name	
Michael A. Meis, and who exe	cuted the foregoing instr	ument, as said person's free	ne personally appeared the above-named e act and deed, on the day and year	
aforesaid.				
(Séal)				
(Seal)		Notary Public		
		,		
	y]):	Family Name or Sur	rname:	
Given Name (first and middle [if any John C.	y]):	Family Name or Sur Schultz	rname:	
John C.	y]):	Family Name or Sur	rname:	
John C. Inventor's Signature:	y]):	Family Name or Sur Schultz Date:		
John C. Inventor's Signature: Residence:	y]):	Family Name or Sur Schultz Date:	Citizenship: United States of America	
John C. Inventor's Signature: Residence: Afton, Minnesota	y]):	Family Name or Sur Schultz Date:	Citizenship:	
John C. Inventor's Signature: Residence: Afton, Minnesota STATE OF MINNESOTA)		Family Name or Sur Schultz Date:	Citizenship:	
John C. Inventor's Signature: Residence: Afton, Minnesota STATE OF MINNESOTA)	y]): 38.	Family Name or Sur Schultz Date:	Citizenship:	
John C. Inventor's Signature: Residence: Afton, Minnesota STATE OF MINNESOTA) COUNTY OF RAMSEY) On this day of	33.	Family Name or Sur Schultz Date: Country: USA	Citizenship: United States of America me personally appeared the above-name	
John C. Inventor's Signature: Residence: Afton, Minnesota STATE OF MINNESOTA) COUNTY OF RAMSEY) On this day of	33.	Family Name or Sur Schultz Date: Country: USA	Citizenship:	
John C. Inventor's Signature: Residence: Afton, Minnesota STATE OF MINNESOTA) COUNTY OF RAMSEY On this day of John C. Schultz, and who exe	33.	Family Name or Sur Schultz Date: Country: USA	Citizenship: United States of America me personally appeared the above-name	

PATENT Case No.: 60160US002 Page 3 of 3 Assignment **REEL: 015594 FRAME: 0800**

RECORDED: 01/13/2005