St. Paul, Minnesota 55133-3427			Case No.: 57211US005		
To: The Honorable Commissioner of Patents and Trademarks Please record the attached original document(e) or copy thereof.  1. Name of conveying party(les)/(Execution Date)  Schardt, Craig R. Anderson, Mark T. Onstoti, James R. October 14, 2003 October 14, 2003 October 17, 2003  Additional names of conveying party(les) attached?    Yes   No   Nature of Conveyance:   Assignment   Menger	K				
Please record the attached original document(s) or copy thereof.   Name of conveying party(les)/(Exocution Date)   Schardt, Craig R.	To: The Honorable Commissioner of Patent	s and Trademarks	L Y		
Schardt, Craig R. Anderson, Mark T. October 14, 2003 October 14, 2003 October 17, 2003 Additional names of conveying perty(ies) attached?    Yes   No   No   Yes   No   No   Neture of Conveyance:   Assignment   Merger   Change of Name   Other:   If this is a request for correction of a previously recorded document, a copy of the proviously recorded accomment and provious Natice of Recordedine is and codes.   Application number or patent number:   This document is to be recorded against the following patent application.   This document is to be recorded against the following patent application or patent: 10/608930   Enter Patent Cooperation Treaty (PCT) application number only if a USSN has not been assigned:   Additional Numbers Attached?   Yes   No   Name and address of party to whom correspondence concerning document should be mailed:   Name: Gregg H. Rosenblatt   Office of Intellectual Property Counsel 3M Innovative Properties Company     Phone Number: (\$2; 904-7443	Please record the attached original document	nt(s) or copy thereof.			
Schardt, Creig R. Anderson, Mark T. October 14, 2003 October 14, 2003 October 17, 2003 October 17, 2003 October 17, 2003  Additional names of conveying party(ies) attached?    Yes	1. Name of conveying party(ies)/(Execut	ion Date)	2 Name and address of receiving weet (in )		
Additional names of conveying party(ies) attached?    Yes   No	Schardt, Craig R. Sente	mber 18, 2003	2. Name and address of receiving party(les):		
Onstorkt, James R. October 14, 2003  Frenk, Lowell C. October 17, 2003  Additional names of conveying party(ies) attached?  Yes No  No  Nature of Conveyance:  Assignment	L		3M Innovative Properties Company		
Frank, Lowell C. October 17, 2003  St. Paul, Minnesota 55133-3427  Additional names of conveying party(ies) attached?    Yes ⊠ No	Onstott, James R. Octob		P.O. Box 33427		
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Yes   No					
Yes   No					
Yes   No	Additional names of conveying narty(ics) attached		Additional names of receiving party(les) attached?		
Sassignment	Yes ⊠ No	-	L Yes ⊠ No		
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Concerning document should be mailed: Name: Gregg H. Rosenblatt Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: (512) 984-7443  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 USE THIS SPACE  1. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the printed Name of Attorney/Agent: bringly in the printed Name of Attorney/Agent: bringly in the printed Name of Attorney/Agent: Signature	5. Name and address of party to whom corre				
Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: (512) 984-7443  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 USE THIS SPACE  1. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the righted Name of Attorney/Agent: Trinted Name of Attorney/Agent: Tri	concerning document should be mailed:				
3M Innovative Properties Company Phone Number: (512) 984-7443  7. Total fee (37 CFR § 3.41): \$40.00  32692  PATENT TRADEMARK OFFICE  8. Deposit Account Number: 13-3723  DO NOT USE THIS SPACE  9. Statement and Signature of the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the Printed Name of Attorney/Agent: printed Name of Attorney/Agent: printed Name of Attorney/Agent: printed Name of Attorney/Agent: printed Name of Signature  Signature  10 2 / 03	Name: Gregg H. Rosenblatt	and p	Atents involved:		
Phone Number: (512) 984-7443  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 USE THIS SPACE  1. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the Printed Name of Attorney/Agent: Teregg H. Rosenblatt Registration No.: 45,056	3M Innovative Properties Company				
32692  PATENT TRADEMARK OFFICE  8. Deposit Account Number: 13-3723  DO NOT USE THIS SPACE  9. Statement and Signature of the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the printed Name of Attorney/Agent: Begistration No.: 45,056  Signature  10/2/03	Phone Number: (512) 984-7443				
32692  PATENT TRADEMARK OFFICE  8. Deposit Account Number: 13-3723  DO NOT USE THIS SPACE  9. Statement and Signature of the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the printed Name of Attorney/Agent: Begistration No.: 45,056  Signature  10/2/03	TERRIBE (IME HTTE STATE ADDRESSED TO BE				
32692  PATENT TRADEMARK OFFICE  8. Deposit Account Number: 13-3723  DO NOT USE THIS SPACE  9. Statement and Signature of the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the printed Name of Attorney/Agent: Begistration No.: 45,056  Signature  10/2/03	7. T		. Total fee (37 CFR § 3.41): \$40.00		
B. Deposit Account Number: 13-3723  DO NOT USE THIS SPACE  1. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the printed Name of Attorney/Agent:  Description No.: 45,056  Signature  Signature  1. Deposit Account Number: 13-3723	32602				
8. Deposit Account Number: 13-3723  DO NOT USE THIS SPACE  1. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the printed Name of Attorney/Agent: The printed Name of Attorney/Agent	· - ·		Authorized to be charged to deposit account		
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o the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the printed Name of Attorney/Agent: Gregg H. Rosenblatt Registration No.: 45,056		DO NOT USE (FIIS SP	ACE		
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Printed Name of Attorney/Agent: Gregg H. Rosenblatt Registration No.: 45,056 Signature	To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the				
Registration No.: 45,056	Printed Name of Attorney/Agent:				
Registration No.: 45,056 Signature	Gregg H. Rosenblatt		10/21/07		
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**PATENT REEL: 014062 FRAME: 0466** 

Case No.: 57211US005

## **ASSIGNMENT OF APPLICATION**

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

SILICATE GLASS FOR U	PCONVERSION FLU	ORESCENCE
<ul> <li>☐ for which an application for a United States Pater for which an application for a United States Pater June 27, 2003;</li> <li>☐ which application is identified as PCT International</li> </ul>	nt identified as U.S. Pater	nt Application No. 10/608930; was filed on
Now, therefore, for good and valuable consideration and transfer and do hereby assign and transfer and in COMPANY, and a Minnesota, its successors and assigns, the entire right and in and to any division or continuation (in white improvements in the said invention made by me or a during, or within one year after the termination of, much subsidiaries), and in and to any and all Letters Pate States of America and countries foreign thereto (inventors' Certificates in foreign countries in its own to which such applications are entitled under interminated by the granted thereon or on any divisional, continuated the properties of the properties of the properties of the properties and allowed as fully and exclusively as they would have I/We do further agree for myself/ourselves and deliver without further consideration any further applications as I/we lawfully may, that may be deemed need fully to secure its right, title, and interest as aforest inventors' Certificates in any and all countries; and I/We do hereby authorize and request the Committee granted upon any of the said applications, to sentire right, title, and interest therein.  In witness whereof, I/we have signed my/our nare	ansier unto the 3M INN corporation of Delaware ght, title, and interest in hole or in part) of said made jointly with others by employment by 3M Corporations, reissincluding the right to appear and to claim any phational conventions, treinuation (in whole or in particular and the said invention been by me/us had this after my/our heirs, executications, assignments, are essary by said Company said and to obtain or munissioner of Patents to issaid 3M Innovative Proposition	NOVATIVE PROPERTIES COMPANY, and an its principal office at Saint Paul and to the said invention and application application, and in and to any and a prication, and any of its existing or future sues, or extensions thereof, of the United ply for Letters Patent, Utility Models, or priority rights for such foreign applications aties, or otherwise), which have been or part), renewal, reexamination, reissue, or or improvements thereon, to be held and assignment and transfer not been made; fors, and administrators, to execute and documents, and to perform such others, its successors, assigns, and nominees a aintain Letters Patent, Utility Models, or successors, assigns, and successors as the assignee of the effice Company, as the assignee of the
Given Name (first and middle [if any]): CRAIG R.	Family Name or Sun SCHARDT	name:
Inventor's Signature School	Date:	P03
Residence: St. Paul, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA ) ss.  COUNTY OF RAMSEY  On this	A Bo	e personally appeared the above-named 's free act and deed, on the day and year
Minnesota My Commission Expires January 31, 2007	Notary Public	

Assignment

Page 1 of 2

PATEN se No.: 57211US005

**REEL: 014062 FRAME: 0467** 

Given Name (first and middle [if any]): MARK T.	Family Name or Surname: ANDERSON		
Inventor's Signature:	Date:		
Maht. anden_	10-14-03		
Residence:	Country:	Citizenship:	
Woodbury, Minnesota	USA	United States of America	
STATE OF MINNESOTA )			
) ss.   COUNTY OF RAMSEY )			
	2/1723		
MARK T. ANDERSON, and who executed the foregoing	instrument, as said persor	personally appeared the above-named	
year aforesaid.	1		
(Seal)	Cometria	S. West	
NOTARY PUBLIC MINNESOTA F	Notan Public		
E			
Given Name (first and middle [if any]):	Family Name or Surna	ma:	
JAMES R.	ONSTOTT	ine.	
driventor's Signature:	Date:		
Some V. Charles	10/10/03		
Flesidence:	Country:	Citizenship:	
Dresser, Wisconsin	USA	United States of America	
STATE OF MINNESOTA )			
) ss. COUNTY OF RAMSEY )			
	2003		
JAMES R. ONSTOTT, and who executed the foregoing in:	, <u>&amp;CCCS</u> , before me p	personally appeared the above-named	
aforesaid.	0	_	
(Seal) EVNTHIA L. WEST	Conthia	& 1110 M	
My Comm. Expires Jan. 31 2003	Notary Public	a week	
£			
Given Name (first and middle [if any]):			
LOWELL C.	Family Name or Surnam	ne:	
Inventor's Signature:	Date:		
Louise C. Frank	10/12/1		
Residence:	Countly:		
Hudson, Wisconsin	USA	Citizenship: United States of America	
STATE OF MINNESOTA )			
) SS.			
COUNTY OF RAMSEY ) On this 17 day of October	2000		
On this day of	<b>⊿</b> <i>UU</i> <b>⊃</b> before me p	ersonally appeared the above-named	
LOWELL C. FRANK, and who executed the foregoing Instru	ument, as said person's fre	ee act and deed, on the day and year	
(Seal) ZONTHIA L. WEST	(limthis)	S. West	
NOTARY PUBLIC MINNESOTA S	Notar Public	VI. Men	
z	,		

Assignment

**RECORDED: 10/21/2003** 

Page 2 of 2

Case No.: 57211US005

PATENT REEL: 014062 FRAME: 0468