02-02-1999		Docket No. 53777USA6A		
- COMMINICATION AND AND AND AND AND AND AND AND AND AN		CORDATION COVER SHEET		
		narks:		
Please record th 10095	54371	hereof.		
Bruce A. Nerad Kelly M	el F. Weber M.Roscoe A. Wheatley arty(ies) attached?	2. Name and address of receiving party(ies) Minnesota Mining and Manufacturing Company P.O. Box 33427 St. Paul, Minnesota 55133-3427		
4. Application number or patent r This document is being filed This document is to be record	with a new patent a	application on lowing patent application or patent: 09/199,602		
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved:		
William D. Miller Minnesota Mining and Manufacturing Company Office of Intellectual Property Counsel P.O. Box 33427 St. Paul, Minnesota 55133-3427		1 x \$40.00		
		7. Total fee (37 CFR 3.41) \$40 . Please charge it to Deposit Account No. 13-3723		
	DO NOT US	E THIS SPACE		
8. Statement and signature.	, , , , , , , , , , , , , , , , , , , ,			
To the best of my knowledge and is a true copy of the original documents at the copy of the original documents.		ng information is true and correct and any attached copy		
William D. Miller	1 Will It	Uhil January 12 1999		
Printed Name of Attorney	Signature	Date		
Total number of pa	iges including cover	r sheet, attachments, and document:		

Form Rec-Asn.doc Rev. 6/11/96

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments, Washington, D.C. 20231

ASSIGNMENT

Whereas we, the below named inventors, with residences and citizenships as indicated below; have made an invention in

MULTILAYER REFLECTOR WITH SELECTIVE TRANSMISSION

and have executed an application for Letters Patent of the United States of America based thereon; which application filed concurrently herwith;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto the MINNESOTA MINING AND MANUFACTURING COMPANY (sometimes designated as the Minnesota Mining & Manufacturing Company), 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 us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the said Company of whichever of us, solely or jointly with one or more others, has made the same), 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 us or any of us had this assignment and transfer not been made,

We do further agree for ourselves and for 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 we lawfully may, that may be deemed necessary by the 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 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 the said Minnesota Mining and Manufacturing Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, we have hereunto signed our names on the days and years set forth below.

Yaoqi Joe Liu

Residence: Maplewood, Minnesota

Citizenship: U.S.A.

STATE OF MINNESOTA)

) ss.

COUNTY OF RAMSEY

On this <u>207H</u> day of <u>November</u> 1999, before me personally appeared the above-named Yaoqi Joe Liu, personally known by me, and known by me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed, on the day and year aforesaid.

RAMSEY COUNTY
My Comm. Expires Jan. 31, 2000

Juning in Thompson Notary Public

PATENT m-j/061198

REEL: 9728 FRAME: 0698

On this day of Apple in ber 1918, before me personally appeared the above-named Robert L. Brott, personally known by me, and known by me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed, on the day and year aforesaid.

SCADATRICIA L. SAMES NOTARY PUBLIC - MINNESOTA WASHINGTON COUNTY My Comm. Expires Jan. 31, 2000 Patricia Dames

Notary Public

Michael F. Mober Docket No. 53777USA6A

Michael F. Weber

Residence: Shoreview, Minnesota

Citizenship: U.S.A.

STATE OF MINNESOTA)

) ss.

COUNTY OF RAMSEY)

On this <u>ROTH</u> day of <u>NOVEMBER</u> 1999, before me personally appeared the above-named Michael F. Weber, personally known by me, and known by me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed, on the day and year aforesaid.

(Seal) Y STATESON STA

Jenney M Thompson Notary Public

	lette of lower
	Kelly M. Roscoe
	Residence: Orono, Minnesota
	Citizenship: U.S.A.
STATE OF MINNESOTA)	•
	SS.
COUNTY OF RAMSEY	
On this 30^{-10}	day of Moveun ber 1978 before me personally
	day of //// ctv/19 4 19/9 before me personally
appeared the above-named K	elly M. Roscoe, personally known by me, and known by me to be the person
	ed the foregoing instrument, and who acknowledged that he executed the
same as his free act and deed,	on the day and year aforesaid.
	, vil
	Latricia Danis
(Seal)	Palried asland
	Notary Public
••••••••••••••••••••••••••••••••••••••	
PATRICIA L. SAMES NOTARY PUBLIC - MINNESOTA	
NUTARY PUBLIC - MINNESUTA	

REEL: 9728 FRAME: 0701

Docket No. 53777USA6A

	John A. Wheatley Residence: Ascot Berkshire, United Kingdom Citizenship: U.S.A.	
(Witness)		
(Witness)		

3M Office of Intellectual Property Counsel, P.O. Box 33427, St. Paul, Minnesota 55133-3427 U.S.A.

PATEN**和**-j/061198

REEL: 9728 FRAME: 0702

ASSIGNMENT

Whereas we, the below named inventors, with residences and citizenships as indicated below; have made an invention in

MULTILAYER REFLECTOR WITH SELECTIVE TRANSMISSION

and have executed an application for Letters Patent of the United States of America based thereon; which application filed concurrently herwith;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto the MINNESOTA MINING AND MANUFACTURING COMPANY (sometimes designated as the Minnesota Mining & Manufacturing Company), 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 us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the said Company of whichever of us, solely or jointly with one or more others, has made the same), 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 us or any of us had this assignment and transfer not been made,

We do further agree for ourselves and for 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 we lawfully may, that may be deemed necessary by the 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 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 the said Minnesota Mining and Manufacturing Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, we have hereunto signed our names on the days and years set forth below.

STATE OF MINNESOTA	,	Yaoqi Joe L Residence: Citizenship:	Maplewood, Minnes	sota		
STATE OF MININESOTA) ss.					
COUNTY OF RAMSEY	,					
On this	Yaoqı Journal of Market	oe Liu, persona oregoing instrun	lly known by me, and nent, and who acknow	d knowi		son
(Seal)					Notary Publ	lic
					•	

	Bruce A. Ne Residence: Citizenship:	Oakdale, Minnesota
STATE OF MINNESOTA)	Citizensinp.	0.5.A.
COUNTY OF RAMSEY)		
On this day	of	
appeared the above-named Bruce A. I	Nerad, person egoing instrun	ally known by me, and known by me to be the person ent, and who acknowledged that he executed the same
(Seal)		Notary Public
		Notary Public
	Laurence R. Residence:	Gilbert Marine on St. Croix, Minnesota
CTATE OF MADEGOTA	Citizenship:	U.S.A.
STATE OF MINNESOTA) ss.		
COUNTY OF RAMSEY)		
	. Gilbert, pers egoing instrun	19, before me personally onally known by me, and known by me to be the person nent, and who acknowledged that he executed the same d.
(Seal)		Notary Public
appeared the above-named Robert L. described in and who executed the for as his free act and deed, on the day and	egoing instrur	Woodbury, Minnesota U.S.A. 19, before me personally ally known by me, and known by me to be the personnent, and who acknowledged that he executed the same
(Seal)	*	Notary Public

Docket No. 53777USA6A Michael F. Weber Residence: Shoreview, Minnesota Citizenship: U.S.A. On this _____ day of _____ 19___, before me personally appeared the above-named Michael F. Weber, personally known by me, and known by me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed, on the day and year aforesaid.

(Seal) Notary Public

STATE OF MINNESOTA)

COUNTY OF RAMSEY

) ss.

Docket No. 53777USA6A

	Kelly M. Ro Residence:	scoe Orono, Minnesota	
	Citizenship:	U . S . A .	
STATE OF MINNESOTA)) ss.		
COUNTY OF RAMSEY) 55.		
appeared the above-named b	Kelly M. Roscoe, person ed the foregoing instrum	nally known by me, a nent, and who acknow	19, before me personally and known by me to be the person wledged that he executed the same
(Seal)			Notary Public

Docket No. 53777USA6A

John A. Wheatley

Residence: Ascot Berkshire, United Kingdom

Citizenship: U.S.A.

(Witness)

C. HowITT

Lisa Gellie L.GILLIE

RECORDED: 01/15/1999