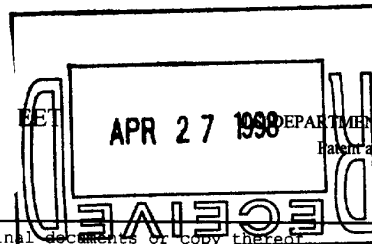


05-12-1998



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1. Name of conveying party(ies):

David George Freier
Cheryl Annette Vrieze

2. Name and address of receiving party(ies):

MINNESOTA MINING AND MANUFACTURING
COMPANY
3M GENERAL OFFICES
ST. PAUL, MINNESOTA 55144-1000

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
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☐ Other:

Execution Date: April 1, 1998

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

08/957,573

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Bruce E. Black
Address: Merchant, Gould, Smith, Edell,
Welter & Schmidt
3100 Norwest Center
90 South Seventh Street
Minneapolis, MN 55402-4131

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

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April 22, 1998

Date

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PATENT
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ASSIGNMENT

WHEREAS, we, David George Freier, residing at 2261 Carter Avenue, St. Paul, MN 55108 and Cheryl Annette Vrieze, residing at 198 E. 6th St. #402, St. Paul, MN 55101, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on October 24, 1997, application Serial No. 08/957,573 which is entitled ARTICLES WITH DIFFUSE REFLECTION OF LIGHT FROM FIBERS.

AND WHEREAS, MINNESOTA MINING AND MANUFACTURING COMPANY (sometimes designated as Minnesota Mining & Manufacturing Company), a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 3M General Offices, St. Paul, MN 55144-1000 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and

the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 1st day of April, 1998.

David Freier
David George Freier

STATE OF _____)
) ss.
COUNTY OF _____)

On this 1st day of April, 1998, before me personally appeared David George Freier to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]

Patricia L. Sames
Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this 1st day of April, 1998.

Cheryl A. Vrieze
Cheryl Annette Vrieze

STATE OF _____)
) ss.
COUNTY OF _____)

On this 1st day of April, 1998, before me personally appeared Cheryl Annette Vrieze to me known and known to me to be the person described in and who executed the foregoing instrument, and she duly acknowledged to me that she executed the same for the uses and purposes therein set forth.

[SEAL]

Patricia L. Sames
Notary Public

