

8/5/98

08-18-1998



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To the Honorable Commissioner of Pat

attached original documents or copy thereof.

1. Name of conveying party(ies):

John J. Gagliardi

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

Name: Minnesota Mining and Manufacturing Company

Internal Address:

Additional names(s) of conveying party(ies) Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Street Address: 3M Center

P.O. Box 33427

City: St. Paul State: MN ZIP: 55133

Execution Date: July 30, 1998

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

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: August 5, 1998

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: James J. Trussell

Internal Address: Office of Intellectual Property
Counsel

Street Address: 3M Center

P.O. Box 33427

City: St. Paul State: MN ZIP: 55133

6. Total number of applications and patents involved: 1

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

19-2020

DO NOT USE THIS SPACE

9. 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 original document.

Michael S. Sherrill

August 5, 1998

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 2

ASSIGNMENT

Whereas, John J. Gagliardi, with a residence and citizenship as indicated below; has made an invention in:

ABRASIVE ARTICLE WITH SEPARATELY FORMED FRONT SURFACE PROTRUSIONS CONTAINING A GRINDING AID AND METHODS OF MAKING AND USING

and has executed an application for Letters Patent of the United States of America based thereon;

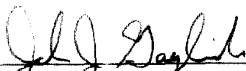
Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto the MINNESOTA MINING AND MANUFACTURING COMPANY (sometimes designated as the Minnesota Mining & Manufacturing Company), a corporation of Delaware, 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 me, 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 had this assignment and transfer not been made;

I do further agree for myself and for my 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 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 I 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, I have hereunto signed my name on the day and year set forth below.

Witness to Signature



John J. Gagliardi

7-30-98
Date

Residence City of Hudson
 County of St. Croix
 State of Wisconsin
Citizenship: United States of America

Witness to Signature