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Rec'd PCT/PTO 27 MAY 1999

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Docket No. 53807USA1A

PATENT ASSIGNMENT RECORDATION COVER SHEET

To: The Commissioner of Patents and Trademarks:
Please record the attached original document or copy thereof.

Submission Type: <input checked="" type="checkbox"/> New <input type="checkbox"/> Resubmission (Non-Recordation): Document ID# _____ <input type="checkbox"/> Correction of PTO Error: Reel # _____ Frame # _____ <input type="checkbox"/> Corrective Document: Reel # _____ Frame # _____		Conveyance Type: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Other: _____
Name of conveying party(ies) David S. Arney Thomas E. Wood	Execution Date (Month/Day/Year) May 24, 1999 May 24, 1999	Name and address of receiving party(ies): 3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427
Additional names of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Application number or patent number:
☒ This document is being filed with a new patent application on May 27, 1999
☐ This document is to be recorded against the following patent application or patent: _____

Patent Cooperation Treaty (PCT):
 Enter PCT application number only if a U.S. Application Number has not been assigned:

Name and address of party to whom correspondence concerning document should be mailed:
 Name: Scott R. Pribnow, Phone Number: 651/736-3512
 Office of Intellectual Property Counsel
 3M Innovative Properties Company
 P.O. Box 33427
 St. Paul, Minnesota 55133-3427

Number of Properties: Enter the total number of properties involved	1
Fee Amount: Fee Amount for Properties Listed (37 CFR 3.41)	X \$40.00
Method of Payment: <input checked="" type="checkbox"/> Charge to Deposit Account No. <u>13-3723</u> Authorization to charge additional fees: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	= \$40.00

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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. Charges to deposit account are authorized, as indicated herein.

Scott R. Pribnow Printed Name of Attorney	 Signature	May 27, 1999 Date
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Pages:
 Total number of pages of the attached conveyance document including any attachments 2

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

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ASSIGNMENT

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

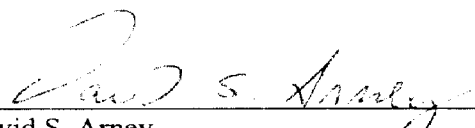
NANOSIZE METAL OXIDE PARTICLES FOR PRODUCING TRANSPARENT METAL OXIDE COLLOIDS AND CERAMERS

and have executed an application for Letters Patent of the United States of America based thereon; which application is identified as PCT International Patent Application Serial No. PCT/US98/15843 (filed July 30, 1998, bearing Attorney Docket Number 53807PCT9A);

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 3M INNOVATIVE PROPERTIES COMPANY, a wholly owned subsidiary of MINNESOTA MINING AND MANUFACTURING 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 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 Minnesota Mining and Manufacturing Company and any of its existing or future subsidiaries 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 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

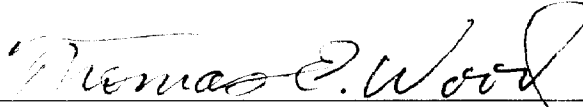

 David S. Arney
 Residence: St. Paul, Minnesota U.S.A.
 Citizenship: United States

STATE OF MINNESOTA)
) ss.
 COUNTY OF RAMSEY)

On this 24th day of May 1999, before me personally appeared the above-named David S. Arney, personally known by me, and known by me to be the person described in and who executed the foregoing instrument, and who acknowledged that said person executed the same as said person's free act and deed, on the day and year aforesaid.




 Notary Public

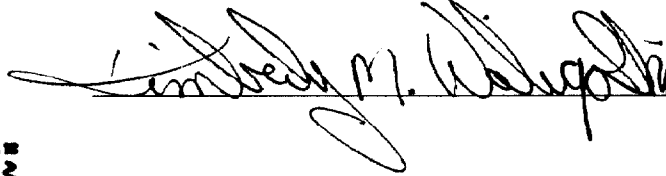


Thomas E. Wood
Residence: Stillwater, Minnesota U.S.A.
Citizenship: United States

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY

On this 24th day of May 1999, before me personally appeared the above-named Thomas E. Wood, personally known by me, and known by me to be the person described in and who executed the foregoing instrument, and who acknowledged that said person executed the same as said person's free act and deed, on the day and year aforesaid.

(Seal)



Notary Public

