		Docket No. 56468US004	
[ (2 2) 2: [   22   ]			
To: The Honorable Commissioner of Patents and Traden	<u> </u>		
Please record the attached original document(s) or copy the			
1. Name of conveying party(ies)/(Execution Date)			
Rosenflanz, Anatoly Z. August 2, 2002	Name and address of receiving party(ies	): É	
08/02/02	3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427	Jc715 U.S.	
Additional names of conveying party(ies) attached?  ☐ Yes ☒ No			
3. Nature of Conveyance:  Assignment		ed?	
<ul> <li>4. Application number or patent number:</li> <li>☑ This document is being filed with a new patent application</li> <li>☐ This document is to be recorded against the following patent Cooperation Treaty (PCT):</li> <li>Enter PCT application number only if a U.S. Application</li> </ul>	ent application or patent:		
Additional Numbers Att	ached? 🗌 Yes 🛛 No		
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Gregory D. Allen  Office of Intellectual Property Counsel  3M Innovative Properties Company  P.O. Box 33427	6. Total number of applications and patents involved: 1		
St. Paul, Minnesota 55133-3427	7. Total fee (37 CFR 3.41) \$40.00		
Phone Number: 651-736-0641	☐ Enclosed ☐ Authorized to be charged to deposit account		
	8. Deposit Account Number: 13-3723		
DO NOT USI	THIS SPACE		
9. Statement and Signature To the best of my knowledge and belief, the foregoing inform the original document. Charges to deposit account are authority	zed, as indicated herein.	y of	
Gregory D. Allen Printed Name of Attorney/Agent Registration No. 35,048 Signature	August 2, 2002 Date		
Pages: Total number of pages including COVER SHEET,	attachments and documents: 2		
Mail documents to be recorded with	required cover sheet information to:	<u></u>	

08/12/2002 DBYRNE 00000023 133723 10211638

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> **PATENT REEL: 013170 FRAME: 0809**

## ASSIGNMENT

Whereas I, the below named inventor, with residence and citizenship as indicated below; have made an invention in

## Al<sub>2</sub>O<sub>3</sub>-Y<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub>/HfO<sub>2</sub> MATERIALS, AND METHODS OF MAKING AND USING THE SAME

and have contemporaneously 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 3M INNOVATIVE PROPERTIES COMPANY, a wholly owned subsidiary of 3M 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 me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment by 3M Company and any of its existing or future subsidiaries), 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 3M Innovative Properties 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.

Anatoly 2 Poseutlant Anatoly Z. Rosenflanz

Residence: Maplewood, Minnesota, USA Citizenship: United States of America

STATE OF MINNESOTA ) COUNTY OF RAMSEY

On this 2nd day of August, 2002, before me personally appeared the above-named Anatoly Z. Rosenflanz, 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.



ELIZABETH A. HENGEN COMM. Expires Jan. 31 2005

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

cip-s/020998

PATENT REEL: 013170 FRAME: 0810