

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Scott R. Culler</td><td>12/17/2008</td></tr><tr><td>Dwight D. Erickson</td><td>12/17/2008</td></tr><tr><td>Negus B. Adefris</td><td>12/17/2008</td></tr><tr><td>John T. Boden</td><td>12/17/2008</td></tr><tr><td>John D. Haas</td><td>12/17/2008</td></tr></tbody></table>	Name	Execution Date	Scott R. Culler	12/17/2008	Dwight D. Erickson	12/17/2008	Negus B. Adefris	12/17/2008	John T. Boden	12/17/2008	John D. Haas	12/17/2008	
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John D. Haas	12/17/2008												
RECEIVING PARTY DATA													
Name:	3M Innovative Properties Company												
Street Address:	P.O. Box 33427												
City:	St. Paul												
State/Country:	MINNESOTA												
Postal Code:	55133-3427												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12337001</td></tr></tbody></table>	Property Type	Number	Application Number:	12337001									
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CORRESPONDENCE DATA													
Fax Number:	(651)736-3833												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	651-733-1500												
Email:	LegalUSDocketing@mmm.com												
Correspondent Name:	3M INNOVATIVE PROPERTIES COMPANY												
Address Line 1:	PO BOX 33427												
Address Line 4:	ST. PAUL, MINNESOTA 55133-3427												
ATTORNEY DOCKET NUMBER:	63512US002												
NAME OF SUBMITTER:	Jenny Thompson												

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PATENT
REEL: 021994 FRAME: 0271

Total Attachments: 4

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PATENT

REEL: 021994 FRAME: 0272

ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

METHOD OF MAKING ABRASIVE SHARDS, SHAPED ABRASIVE PARTICLES WITH AN OPENING, OR DISH-SHAPED ABRASIVE PARTICLES
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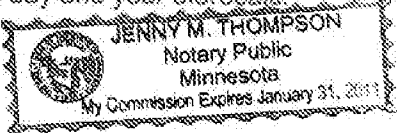
- ☒ for which an application for a United States Patent is being filed contemporaneously herewith;
- ☐ for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
- ☐ which application is identified as PCT International Patent Application No. ; filed ;

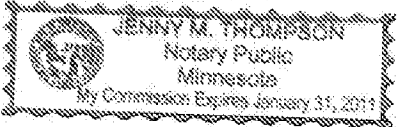
Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office 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 with 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/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/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 I/we lawfully may, that may be deemed necessary by 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/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 said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): SCOTT R.		Family Name or Surname: CULLER	
Inventor's Signature: <i>Scott R. Culler</i>		Date: 12/17/2008	
Residence: Burnsville, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>17</u> day of <u>DECEMBER</u> , <u>2008</u> , before me personally appeared the above-named SCOTT R. CULLER, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid. (Seal)  <i>Jenny M. Thompson</i> Notary Public			

Given Name (first and middle [if any]): DWIGHT D.		Family Name or Surname: ERICKSON	
Inventor's Signature: <i>Dwight D. Erickson</i>		Date: 12/17/2008	
Residence: Oakdale, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>17</u> day of <u>DECEMBER</u> , <u>2008</u> , before me personally appeared the above-named DWIGHT D. ERICKSON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid. (Seal)  <i>Jenny M. Thompson</i> Notary Public			

