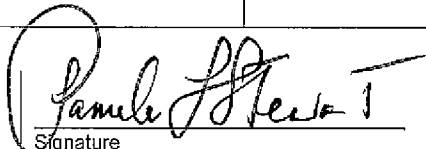


Case No.: 63491US002

RECORDATION FORM COVER SHEET PATENTS ONLY

To: The Director of the U.S. Patent and Trademark Office:

Please record the attached document(s) or the new address(es) below.

1. Name of conveying party(ies) <u>Execution Date(s):</u> Owen, Ian R. Oct. 8, 2007 Wald, Charles R. Oct. 8, 2007 Studiner IV, Charles J. Oct. 5, 2007 Swanson, Mark A. Oct. 16, 2007 Woo, Edward J. Oct. 8, 2007 Schmidt, Curtis J. Oct. 8, 2007 Braunschweig, Ehrich J. Oct. 8, 2007 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): 3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427 Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Other:			
4. Application or patent number(s) <input type="checkbox"/> This document is being filed together with a new application. <table border="1"> <tr> <td>A. Patent Application No(s). 29/283290</td> <td>B. Patent No(s).</td> </tr> </table> Additional Numbers Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		A. Patent Application No(s). 29/283290	B. Patent No(s).
A. Patent Application No(s). 29/283290	B. Patent No(s).		
5. Name and address to whom correspondence concerning document should be mailed: Name: Scott A. Baum Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: -1-651-733-1534 Fax Number: 651-736-3833 <div style="text-align: center;"> 32692 Customer Number </div>	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR §§ 1.21(h) & 3.41): \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Payment Information: Deposit Account Number: 13-3723 Authorized User Name: Scott A. Baum		
9. Signature: Printed Name of Attorney/Agent: Pamela L. Stewart Registration No.: 45,707 <div style="text-align: center;">  Signature </div> <div style="text-align: right;"> October 19, 2007 Date </div>			
Pages: Total number of pages including COVER SHEET, attachments, and documents 10			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
 Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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PATENT
REEL: 019997 FRAME: 0033

Case No.: 63491US002

ASSIGNMENT OF APPLICATION

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

RANDOM HOLE ABRASIVE DISC


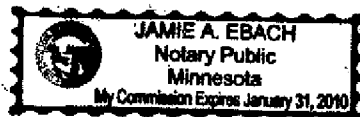
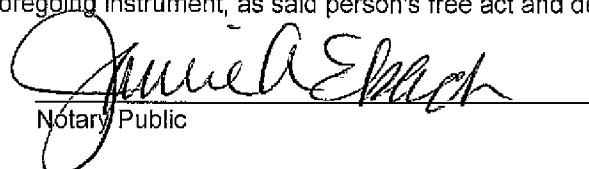
- ☐ for which an application for a United States Patent is being filed contemporaneously herewith;
- ☒ for which an application for a United States Patent identified as U.S. Patent Application No. 29/283290; was filed on August 9, 2007;
- ☐ which application is identified as PCT International Patent Application No. ; filed ;

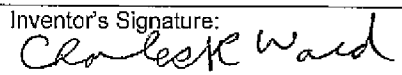
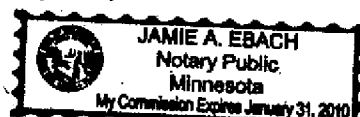
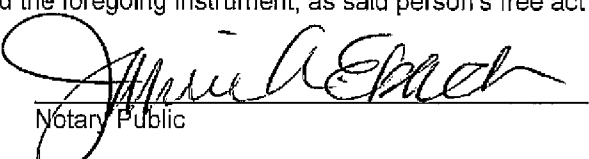
Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office 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;



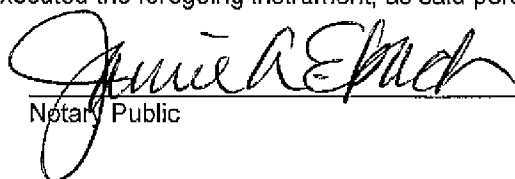
I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, 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.

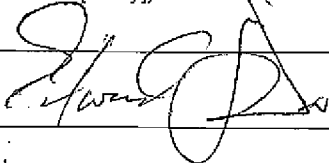


In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

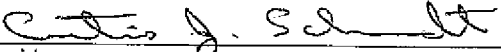

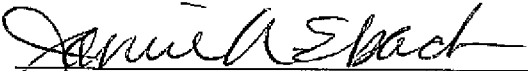
Given Name (first and middle [if any]): IAN R.		Family Name or Surname: OWEN	
Inventor's Signature: 		Date: 10-8-07	
Residence: Baldwin, Wisconsin		Country: USA	Citizenship: British
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>8th</u> day of <u>October</u> , <u>2007</u> , before me personally appeared the above-named IAN R. OWEN, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)			 Notary Public

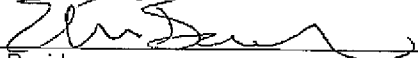
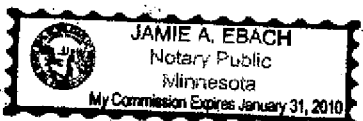
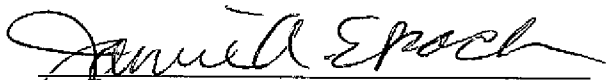
Given Name (first and middle [if any]): CHARLES R.		Family Name or Surname: WALD	
Inventor's Signature: 		Date: 10-8-07	
Residence: Oakdale, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>8th</u> day of <u>October</u> , <u>2007</u> , before me personally appeared the above-named CHARLES R. WALD, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)			 Notary Public

Given Name (first and middle [if any]): CHARLES J.		Family Name or Surname: STUDINER IV	
Inventor's Signature: 		Date: 10/5/2007	
Residence: Cottage Grove, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>5th</u> day of <u>October</u> , <u>2007</u> , before me personally appeared the above-named CHARLES J. STUDINER IV, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)	  Notary Public		

Given Name (first and middle [if any]): MARK A.		Family Name or Surname: SWANSON	
Inventor's Signature:		Date:	
Residence: Ames, Iowa		Country: USA	Citizenship: United States of America
STATE OF IOWA)) ss. COUNTY OF _____) On this _____ day of _____, _____, before me personally appeared the above-named MARK A. SWANSON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)	_____ Notary Public		

Given Name (first and middle [if any]): EDWARD J.		Family Name or Surname: WOO	
Inventor's Signature: 		Date: 10-8-07	
Residence: Woodbury, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
On this <u>8th</u> day of <u>October</u> , <u>2007</u> , before me personally appeared the above-named EDWARD J. WOO, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)			
	 Notary Public		

Given Name (first and middle [if any]): CURTIS J.		Family Name or Surname: SCHMIDT	
Inventor's Signature: 		Date: 10/8/07	
Residence: South St. Paul, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>8th</u> day of <u>October</u> , <u>2007</u> , before me personally appeared the above-named CURTIS J. SCHMIDT, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)			 Notary Public

Given Name (first and middle [if any]): EHRICH J.		Family Name or Surname: BRAUNSCHWEIG	
Inventor's Signature: 		Date: 10/8/07	
Residence: Woodbury, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>8th</u> day of <u>October</u> , <u>2007</u> , before me personally appeared the above-named EHRICH J. BRAUNSCHWEIG, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)	 <div style="text-align: right;">  _____ Notary Public </div>		

Case No.: 63491US002

ASSIGNMENT OF APPLICATION

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

RANDOM HOLE ABRASIVE DISC

- ☐ 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. 29/283290; was filed on August 9, 2007;
- ☐ 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]): IAN R.		Family Name or Surname: OWEN	
Inventor's Signature:		Date:	
Residence: Baldwin, Wisconsin		Country: USA	Citizenship: British
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
On this _____ day of _____, _____, before me personally appeared the above-named IAN R. OWEN, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		_____ Notary Public	

Given Name (first and middle (if any)): CHARLES R.		Family Name or Surname: WALD	
Inventor's Signature:		Date:	
Residence: Oakdale, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
On this _____ day of _____, _____, before me personally appeared the above-named CHARLES R. WALD, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		_____ Notary Public	

Given Name (first and middle [if any]): CHARLES J.		Family Name or Surname: STUDINER IV	
Inventor's Signature:		Date:	
Residence: Cottage Grove, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
On this _____ day of _____, before me personally appeared the above-named CHARLES J. STUDINER IV, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		Notary Public	

Given Name (first and middle [if any]): MARK A.		Family Name or Surname: SWANSON	
Inventor's Signature: <i>Mark A. Swanson</i>		Date: <i>10/17/07</i>	
Residence: Ames, Iowa		Country: USA	Citizenship: United States of America
STATE OF IOWA)) ss. COUNTY OF <i>Story</i>)			
On this <i>17th</i> day of <i>October</i> , <i>2007</i> , before me personally appeared the above-named MARK A. SWANSON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		<i>Cheryl Pearson</i> Notary Public <i>Cheryl Pearson</i>	



CHERYL PEARSON
Commission Number 715391
My Commission Expires 3-7-2008

Given Name (first and middle [if any]): EDWARD J.		Family Name or Surname: WOO	
Inventor's Signature:		Date:	
Residence: Woodbury, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
On this _____ day of _____, before me personally appeared the above-named EDWARD J. WOO, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		_____ Notary Public	

Given Name (first and middle [if any]): CURTIS J.		Family Name or Surname: SCHMIDT	
Inventor's Signature:		Date:	
Residence: South St. Paul, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
On this _____ day of _____, before me personally appeared the above-named CURTIS J. SCHMIDT, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		_____ Notary Public	

Given Name (first and middle [if any]): EHRICH J.		Family Name or Surname: BRAUNSCHWEIG	
Inventor's Signature:		Date:	
Residence: Woodbury, Minnesota		Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
On this _____ day of _____, before me personally appeared the above-named EHRICH J. BRAUNSCHWEIG, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		_____ Notary Public	