RECORDATION FORM COVER SHEET PATENTS ONLY To: The Director of the U.S. Patent and Trademerk Office: Please record the attached document(s) or the new address(es) below. 1. Name of conveying party(ies) Braunschweig, Ehrich J. Studiner IV, Charles J. May 22, 2008 Additional name(s) of conveying party(ies) attached? Yes ☑ No 3. Nature of conveyance: ☐ Security Agraement ☐ Change of Name ☐ Change of Name ☐ Change of Name ☐ Change of Name ☐ Security Agraement ☐ Change of Name ☐ Change of		Case No.: 64319US002			
Please record the attached document(s) or the new address(es) below. 1. Name of conveying party(ies) Braunschweig, Ehrich J. Studiner IV, Charles J. May 22, 2008 May 22, 2008 May 22, 2008 May 22, 2008 Additional name(s) of conveying party(ies) attached? Yes No Additional name(s) of conveying party(ies) attached? Yes No Additional name(s) of receiving party(ies) attached? Yes No 1. Nature of conveying party(ies) attached? Yes No 4. Application or patent number(s) A. Patent Application No(s). 29 318567 Additional name(s) of receiving party(ies) attached? Yes No 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: 651-736-3633 32692 Customer Number 9. Signature: Printed Name of Attorney/Agent: Scott A. Baum 9. Signature: Printed Name of Attorney/Agent: Scott A. Baum Signature Printed Name of Attorney/Agent: Signature					
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Braunschweig, Ehrich J. May 22, 2008 Studiner IV, Charles J. May 22, 2008 Additional name(s) of conveying party(ies) attached? Yes No	Please record the attached document(s) or the new addres	s(es) below.			
Studiner IV, Charles J. May 22, 2008 Studiner IV, Charles J. May 22, 2008 P.O. Box 33427 St. Paul, Minnesota 55133-3427	Name of conveying party(ies)	2. Name and address of receiving party(ies):			
Yes No Yes No Nature of conveyance: Assignment Security Agreement Change of Name Socurity Agreement Change of Name Socurity Agreement Government Interest Assignment Other: Socurity Agreement Government Interest Assignment Other: A. Application or patent number(s) This document is being filed together with a new application. A. Patent Application No(s). B. Patent No(s).		P.O. Box 33427			
Security Agreement					
A. Patent Application No(s). 29 318587 Additional Numbers Attached?	✓ Assignment ✓ Merger ✓ Security Agreement ✓ Change of Name ✓ Joint Research Agreement ✓ Government Interest Agreement	ssignment			
Additional Numbers Attached?	4. Application or patent number(s)	document is being filed together with a new application.			
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: 651-733-1534 Fax Number: 651-736-3833 32692 Customer Number Substitute: Printed Name of Attorney/Agent: Scott A. Baum Registration No.: 51,237 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR §§ 1.21(h) & 3.41): \$40.00 □ Enclosed □ Authorized to be charged to deposit account 8. Payment Information: Deposit Account Number: 13-3723 Authorized User Name: Scott A. Baum Signature: Printed Name of Attorney/Agent: Signature Signature	• •	B. Patent No(s).			
And patents involved: Name: Scott A. Baum Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: 651-733-1534 Fax Number: 651-736-3833 32692 Customer Number 32692 Customer Number 9. Signature: Printed Name of Attorney/Agent: Scott A. Baum Registration No.: 51,237 And patents involved: 1 and patents involved: 1 7. Total fee (37 CFR §§ 1.21(h) & 3.41): \$40.00 □ Enclosed □ Authorized to be charged to deposit account 8. Payment Information: Deposit Account Number: 13-3723 Authorized User Name: Scott A. Baum Signature □ Authorized User Name: Scott A. Baum	Additional Numbers A	ttached?			
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Printed Name of Attorney/Agent: Scott A. Baum Registration No.: 51,237 Printed Name of Attorney/Agent: Scott A. Baum Signature Date They 22, 2008 Date		Authorized User Name: Scott A. Baum			
Scott A. Baum Registration No.: 51,237 Signature ACCUTATION Date Date		1 •			
Registration No.: 51,237 Signature Date U					

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PATENT

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Case No.: 64319US002

ASSIGNMENT OF APPLICATION

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

	ABRASIVE ARTICLE WITH HOLES
\boxtimes	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]): EHRICH J.	Family Name or Surname: BRAUNSCHWEIG					
Inventor's Signature:	Date: 5/22/08					
Residence:	012108 Country:	Citizenship:				
Woodbury, Minnesota	USA	United States of America				
STATE OF MINNESOTA) ss. COUNTY OF RAMSEY) On this 22 day of						
(Seal) JENNY M. THOMPSON Notary Public Minnesota My Commission Expires January 31, 2011 My Commission Expires January 31, 2011						

Assignment

Page 1 of 2 Case No.: 64319US002

Given Name (first and middle [if any]):	Family Name or Surname:				
CHARLES J.	STUDINER IV				
Inventor's Signature:	Date:				
Millan	5/22/08				
Residence	Country:	Citizenship:			
Cottage Grove, Minnesota	USA	United States of America			
STATE OF MINNESOTA)) ss.					
COUNTY OF RAMSEY)					
On this 22 day of MAY , 3008 , 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) JENNY M. THOMPSON Notary Public Minnesotle My Commission Expires January 31, 2011 My Commission Expires January 31, 2011					

Assignment

Page 2 of 2 3M Innovative Properties Company, P.O. Box 33427, St. Paul, Minnesota 55133-3427 Case No.: 64319US002

PATENT

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