ID:LANIERFAX3800

RECORDATION FORM COVER SHEET PATENTS ONLY To: The Honorable Commissioner of Patents and Trademarks Please record the attached original document(s) or copy thereof. 1. Name of conveying party(les)/fixecution Date) Oufresne, Joel R. March 4, 2004 Felsel, Bryan C. March 3, 2004 Hansen, Brent R. March 4, 2004 March 6, 2004 March 7, 2004 March 8, 2004 March 9, 2004 March 1, 2004				Case No.: 58663US002
To: The Honorable Commissioner of Patents and Trademarks Please record the attached original document(s) or copy thereof. 1. Name of conveying party(les)/(Execution Date) Oufresne, Joel R. March 4, 2004 Felsel, Bryan C. March 4, 2004 Hansen, Brent R. March 4, 2004 Hansen, Brent R. March 4, 2004 March 4, 2004 March 4, 2004 March 4, 2004 Hansen, Brent R. March 4, 2004 Additional names of conveying party(les) attached? □ Yes ☑ No 3. Nature of Conveyance: □ Assignment □ Change of Name □ Other: A. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s). 10/682,597 Additional Numbers Attached? □ Yes ☑ No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Robort W. Sprague Office of intellectual Property Counsel 3M Innovative Properties Company Phone Number: (651) 733-4247 7. Total fee (37 CFR § 3.41): \$40.00 □ Enclosed □ Authorized to be charged to deposit account 8. Deposit Account Number: 13-3723				
1. Name of conveying party(les)/(Execution Date) Dufresne, Joel R. March 4, 2004 Felsel, Bryan C. March 4, 2004 Gerten, Theresa J. March 3, 2004 Hansen, Brent R. March 4, 2004 Additional names of conveying party(les) attached? 1 Yes No 3. Nature of Conveyance: Assignment Change of Name Other: 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s), 10/682,597 Additional Numbers Attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Robert W. Sprague Office of intellectual Properties Company Phone Number: (651) 733-4247 32692 Customer Number DO NOT USE THIS SPACE	To: The Honorable Commissioner of Patents and Tradem	arks	<u>- I</u>	
Dufresne, Joel R. Felsel, Bryan C. Gerten, Theresa J. Hansen, Brent R. Nguyen, David D. Additional names of conveying party(les) attached? Yes ☒ No Additional names of conveying party(les) attached? Yes ☒ No Nature of Conveyance: ☒ Assignment ☐ Change of Name ☐ Other: 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s). 10/682,597 Additional Numbers Attached? ☐ Yes ☒ No Additional Numbers Attached? ☐ Yes ☒ No 5. Name and address of party to whome correspondence concerning document should be mailed: Name: Robert W. Sprague Office of intellectual Property Counsel 3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427 Additional names of receiving party(ies) attached? ☐ Yes ☒ No B. Patent No(s). 6. Total number of applications and patents involved: 1 T. Total fee (37 CFR § 3.41): \$40.00 ☐ Enclosed ☐ Authorized to be charged to deposit account 8. Deposit Account Number: 13-3723	· · · · · · · · · · · · · · · · · · ·	hereof.	<u> </u>	
Felsel, Bryan C. Gerten, Theresa J. March 3, 2004 Hansen, Brent R. March 4, 2004 Additional names of conveying party(les) attached? Yes No	1. Name of conveying party(les)/(Execution Date)		2. Name and addres	s of receiving party(ies):
Gerten, Theresa J. Hansen, Brent R. Nguyen, David D. Additional names of conveying party(les) attached? Additional names of conveying party(les) attached? Yes No Nature of Conveyance: Assignment	l = ·			rties Company
Additional names of conveying party(les) attached? Yes No	Gerten, Theresa J. March 3, 2004			55133-3427
Additional names of conveying party(les) attached? Yes No Nature of Conveyance: Merger Change of Name Other: Merger Change of Name Other: Merger Change of Name His document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s). B. Patent No(s). 10/682,597 Additional Numbers Attached? Yes No Name: Robort W. Sprague Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: (851) 733-4247 32692 Customer Number 3200 Customer Number Do NOT USE THIS SPACE	111111111111111111111111111111111111111			
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Yes			☐ Yes ⊠ No	piving party(ies) attached r
Assignment Security Agreement Change of Name Other: 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s). Additional Numbers Attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Robert W. Sprague Office of intellectual Property Counsel 3M Innovative Properties Company Phone Number: (651) 733-4247 32692 Customer Number 7. Total fee (37 CFR § 3.41): \$40.00 Enclosed Authorized to be charged to deposit account 8. Deposit Account Number: 13-3723	Additional names of conveying party(ies) attached? ☐ Yes ☑ No			
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	8. Deposit Account Number: 13-3723			
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Robert W. Sprague March 30, 2004				
Registration No.: 30,497 Signature Date Pages: Total number of pages including COVER SHEET, attachments and documents 4		chments en		

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Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

3

Case No.: 58663US002

ASSIGNMENT OF APPLICATION

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

BALLETI AVCD DDO	OFFICIAL DEVICES AND	METHODO
MOLTILATER PROC	CESSING DEVICES AND	METHODS
for which an application for a United States P for which an application for a United States P October 9, 2003;	atent is being filed contempor atent identified as U.S. Paten	raneously herewith; it Application No. 10/682597; was filed on
which application is identified as PCT Interna	tional Patent Application No.	filed;
Now, therefore, for good and valuable cor assign and transfer and do hereby assign and wholly-owned subsidiary of 3M COMPANY, and Minnesota, its successors and assigns, the entition and in and to any division or continuation (in improvements in the said invention made by meduring, or within one year after the termination of subsidiaries), and in and to any and all Letters if States of America and countries foreign thereful Inventors' Certificates in foreign countries in its of to which such applications are entitled under in may be granted thereon or on any divisional, conter or further application based in whole or in enjoyed as fully and exclusively as they would have lived to further agree for myself/ourselves deliver without further consideration any further a acts as I/we lawfully may, that may be deemed fully to secure its right, title, and interest as af Inventors' Certificates in any and all countries; and I/We do hereby authorize and request the Cobe granted upon any of the said applications, entire right, title, and interest therein. In witness whereof, I/we have signed my/our	d transfer unto the 3M INNid a corporation of Delaware, re right, title, and interest in an whole or in part) of said or made jointly with others (of, my employment by 3M CC Patent, reexaminations, reiss to (including the right to appower name and to claim any poternational conventions, treat continuation (in whole or in part upon the said invention ave been by me/us had this and for my/our heirs, execut applications, assignments, an necessary by said Company, foresaid and to obtain or maind ommissioner of Patents to issit to said 3M Innovative Property.	OVATIVE PROPERTIES COMPANY, a having its principal office at Saint Paul and to the said invention and application application, and in and to any and all provided any such improvement is made DMPANY and any of its existing or future sues, or extensions thereof, of the United ply for Letters Patent, Utility Models, our improvements for such foreign applications aties, or otherwise), which have been our improvements thereon, to be held and assignment and transfer not been made; tors, and administrators, to execute and documents, and to perform such other, its successors, assigns, and nominees allutain Letters Patent, Utility Models, or successors, as the assignee of the arties Company, as the assignee of the
Given Name (first and middle [if any]):		
Joel R.	Family Name or Sum Dufresne	name:
Inventor's Signature: Jufusure	Date: 3/4/04	
Residence: St. Paul, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this day of March, 2004, before m executed the foregoing instrument, as eaid person's	e personally appeared the abov	e-named Joel R. DUFRESNE, and who

Assignment

(Seal)

My Comm. Expires Jan. 31, 2005

Page 1 of 3 PATENTS No.: 58663US002

REEL: 014473 FRAME: 0330

Given Name (first and middle [if any]): Bryan C.	Family Name or Surname: Feisel			
Inventor's Signature: Byyan C. Heisel	03/04/04			
Residence: U Hudson, Wisconsin	Country: USA	Citizenship: United States of America		
STATE OF MINNESOTA)) ss.				
COUNTY OF RAMSEY)		Duran C. Foigot and who		
On this 4 day of March, 2004, before me personall executed the foregoing instrument, as said person's free act and	y appeared the above-named t I deed, on the day and year af	presald.		
(Seal) \$ JODY L. BRONSON \$	Jany I. D.	onson_		
My Comm. Expires Jan. 31, 2005	Votary Public			
£~~~~~				
Given Name (first and middle [if any]):	Family Name or Surname:			
Theresa J.	Gerten			
Inventor's Signature:	Date: 3/3/04/			
Residence: Eagan, Minnesota	Country: USA	Citizenship: United States of America		
STATE OF MINNESOTA)	00/1	Other Branch		
) ss.				
COUNTY OF RAMSEY) On this 3rd day of March, 2004, before me personall		Thorono I Corton and who		
executed the foregoing instrument, as said person's free act and	y appeared the above-hamed I deed, on the day and year af	oresaid.		
(Seal) Emm		nson		
JODY L. BRONSON NOTARY PUBLIC - MINNESOTA				
My Comm. Expires Jan. 81, 2005	•			
B*************************************	10-10-11-11-11-1			
Given Name (first and middle [if any]):	Family Name or Surname:			
Brent R.	Hansen			
Inverior's Signature:	Date: 3-4-04			
Dienti. Hansen	3-9-09 Country:	Citizenship:		
Residence: New Richmond, Wisconsin	USA	United States of America		
STATE OF MINNESOTA)				
) ss. COUNTY OF RAMSEY)				
On this day of March, 2004, before me personally appeared the above-named Brent R. Hansen, and who				
executed the foregoing instrument, as said person's free act and	d deed, on the day and year af	oresald.		
(Seal) JODY L. BRONSON NOTARY PUBLIC - MINNESOTA	Jany L. Dr	natr		
My Comm. Expires Jan. 31, 2005	votary Public			
=~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				

Assignment

Page 2 of 3

PATENT S86 No.: 58663U\$002

REEL: 014473 FRAME: 0331

5

Given Name (first and middle [if any]): David D.	Family Name or Surr Nguyen	name:
Inventor's Signature:	Date: 5/4/04	
Residence: Savage, Minnesola	Country: USA	Citizenship: United States of America
Witness: Buttan 311	~	
Witness: Quay Sell:		

Assignment

RECORDED: 03/30/2004

Page 3 of 3

Cese No.: 58663US002

PATENT REEL: 014473 FRAME: 0332