1	09-23-2	:003		
9-12-03			Case No.: 58575U	S002
·	102556	 റമ6	'	
To: The Honorable Commissioner	UI anu maubinai	I NO		
Please record the attached original 1. Name of conveying party(ies)		ereof.		
1. Name of conveying party(les	/\LXecution Date/		2. Name and address of receiving party	ies):
Smith, Samantha D.	September 11, 2003		3M Innovative Properties Company	
Shipman, Gene H.	September 11, 2003		P.O. Box 33427	
Floyd, Robert M.	September 11, 2003		St. Paul, Minnesota 55133-3427	
Freemyer, Harold Todd	September 11, 2003		Ca. 1 a.a.,	
Hamrock, Steven J.	September 11, 2003			
Yandrasits, Michael A.	September 11, 2003 September 10, 2003			10
Walton, David G. S.	September 10, 2003	'	Additional names of receiving party(ies) attache ☐ Yes ☒ No	a'?
Additional names of conveying party(i	es) attached?		£ 2	
☐ Yes ☒ No 3. Nature of Conveyance:			<u> </u>	2 🚟
S. Nature of Conveyance.	Merger		<u>ه</u>	ろ 三葉
Security Agreement	Change of Name		=	2 3
Other:	- 0		88	
If this is a request for correction of a previo			N N	
4. Application number or paten ⊠ This document is being filed cont □ This document is to be recorded □ Enter Patent Cooperation Treaty	emporaneously with a new against the following pater	nt application	on or patent:	
,	Additional Numbers A			
5. Name and address of party to w	hom correspondence	6. Total	number of applications	
concerning document should be	e mailed:	and p	patents involved:	
Name: Sean J. Edman		•		
Office of Intellectual Property	•			
3M Innovative Properties Co Phone Number: (651) 575-1				
Thore values. (651) 616				
		7. Total	fee (37 CFR § 3.41): \$40.00	
	11411		Enclosed	
32692			Authorized to be charged to deposit account	
PATENT TRADEMARK OF	FICE			
		8. Depo	sit Account Number: 13-3723	
	DO NOT U	SE THIS SI	PACE	

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services Director of the United States Patent and Trademark Office

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the

P.O. Box 1450 Alexandria, VA 22313-1450

original document. Charges to deposit account are authorized, as indicated herein.

10661908

Signature Pages: Total number of pages including COVER SHEET, attachments and documents

01 FC:8021 40.00 DA

09/22/2003 DBYRNE

Sean J. Edman

Registration No.: 42,506

9. Statement and Signature

Printed Name of Attorney/Agent:

00000151 133723

September 12, 2003

9

Case No.: 58575US002

ASSIGNMENT OF APPLICATION

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

	MICROPOROUS PVDF FILMS AND METHOD OF MANUFACTURING
for which	th an application for a United States Patent is being filed contemporaneously herewith; than application for a United States Patent identified as U.S. Patent Application No.; was filed on; pplication 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 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/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]):	Family Name or Surname:	
Samantha D.	Smith	
Inventor's Signature:	Date: 9/11/03	
Residence:	Country:	Citizenship:
Minneapolis, Minnesota	USA	United States of America
STATE OF MINNESOTA)) ss.		
COUNTY OF RAMSEY)		
On this 11th day of September	, 2003 , before me persona	lly appeared the above-named
Samantha D. Smith, and who executed the foregoing instrum	ent, as said person's free act a	nd deed, on the day and year
aforesaid.		
(Seal) KATHLEEN M. MURRAY Notary Public Minnesota Notary Public Notary Public Notary Public		

Assignment

Page 1 of 4

Case No.: 58575US002

Given Name (first and middle [if any]):	Family Name or Surname:	
Gene H.	Shipman	
Inventor's Signature:	Date: 9/11/03	>
Residence:	Country:	Citizenship:
Cottage Grove, Minnesota	USA	United States of America
OTATE OF HINDEOOTA		
STATE OF MINNESOTA)		
) ss. COUNTY OF RAMSEY)		
COUNTY OF RAMSEY	2013	
On this //t day of deptember.	before me persona	lly appeared the above-named
Gene H. Shipman, and who executed the foregoing instrument	t, as said person's free act and	d deed, on the day and year
aforesaid.	1/	n
(Seal) Notary Public _	Hathleen //	1. Tekuray
Minnesota	lotary Public	
My Commission Expires Jan. 31, 2005		
Given Name (first and middle [if any]):	Family Name or Surname:	
Robert M.	Floyd	
	-	
Inventor's Signature:	Date:	
Koht Mittay D	9/11/03	
Residence:	Country:	Citizenship:
Maplewood, Minnesota	USA	United States of America
Maplewood, Militiesota	30,1	Simod States Siritificate
STATE OF MINNESOTA)		
) ss.		
COUNTY OF RAMSEY)		
On this 1/th day of Deptember	. 2103 , before me persona	ally appeared the above-named
Robert M. Floyd, and who executed the foregoing instrument,	as said person's free act and	deed, on the day and year
aforesaid.		
KATHLEEN M. MURRAY	Katton V	nmille
(Seal) Notary Public	Talhleen IT	1. 1xperray
Minnesota C	Notary Public	,
My Commission Expires Jan. 31, 2005		
Given Name (first and middle [if any]):	Family Name or Surname:	CHARLES IN THE PROPERTY OF THE PARTY OF THE
Harold Todd	Freemyer	
Trainia roud	1 Toomyon	
Inventor's Signature:	Date:	
Hand odd transfer	9-11-	03
	<u> </u>	
Residence:	Country: USA	Citizenship: United States of America
Woodbury, Minnesota	USA	Officed States of Afficia
STATE OF MINNESOTA)		
) ss.		
COUNTY OF RAMSEY)		
	2013 hefore me person	ally appeared the above-named
Harold Todd Freemyer, and who executed the foregoing instr		
your diviosaid.	VACTION WILL	$n \checkmark m$
(Seal) KATHLEEN M. MURRAY	TUILDUM) TI	I. YK VIADALA
1 WIL WUNDAY	1 Journal 1	1 yours
Notary Public	Notary Public	7. Murray
Notary Public Minnesota My Controlssion Expires Jan. 31, 2005	Hathleen II Notary Public	, growy

Assignment

Page 2 of 4

PATENT REEL: 014502 FRAME: 0043

Case No.: 58575US002

Given Name (first and middle [if any]): Steven J.	Family Name or Surname: Hamrock	
Inventor's Signature	Date: 9/1//	03
Residence: Stillwater, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA) ss. COUNTY OF RAMSEY On this // day of	ment, as said person's free act	
Given Name (first and middle [if any]): Michael A.	Family Name or Surname: Yandrasits	
Inventor's Signature:	Date:	43

mulul A golina	9/11/0	3 3
Residence:	Country:	Citizenship:
Hastings, Minnesota	USA	United States of America
STATE OF MINNESOTA)) ss.		
COUNTY OF RAMSEY)	<i>a</i>	
On this 11th day of September	, <u>&003</u> , before me persona	illy appeared the above-named
Michael A. Yandrasits, and who executed the foregoing instru	ment, as said person's free ac	t and deed, on the day and year
aforesaid.	W	4
(Seal) KATHLEEN M. MURRAY	Motary Public	n-Munay

Given Name (first and middle [if any]): David G. S.	Walton	
Inventor's Signature:	Date:	
Residence: Honolulu, Hawaii	Country: USA	Citizenship: United States of America
STATE OF HAWAII) ss. COUNTY OF) On this day of David G. Shibasaki Walton, and who executed the foregoin year aforesaid.	,, before me g instrument, as said pers	e personally appeared the above-named son's free act and deed, on the day and
(Seal)	Notary Public	

Assignment

Page 4 of 4

PATENT REEL: 014502 FRAME: 0045

Case No.: 58575US002

Case No.: 58575US002

ASSIGNMENT OF APPLICATION

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

	MICROPOROUS PVDF FILMS AND METHOD OF MANUFACTURING
\Box	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 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/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]):	Family Name or Surname:	
Samantha D.	Smith	
Garnanina B.	Cimur	
Inventor's Signature:	Date:	
3		
Residence:	Country:	Citizenship:
Minneapolis, Minnesota	USA	United States of America
	L	
STATE OF MINNESOTA)		
) ss.		
COUNTY OF RAMSEY)		
On this day of	. before me persona	lly appeared the above-named
Samantha D. Smith, and who executed the foregoing instrume		
,	ent, as said persons nee act a	nd deed, on the day and year
aforesaid.		
(Sool)		
(Seal)	Voton/ Public	
Notary Public		

Assignment Page 1 of 4 Case No.: 58575US002

Given Name (first and middle [if any]):	Family Name or Surname:	
Gene H.	Shipman	
Inventor's Signature:	Date:	
IIIVentor 3 Organica.		
Residence:	Country:	Citizenship:
Cottage Grove, Minnesota	USA	United States of America
STATE OF MINNESOTA)) ss.		,
COUNTY OF RAMSEY)		'
On this day of,	, before me persona	illy appeared the above-named
Gene H. Shipman, and who executed the foregoing instrument	t, as said person's free act and	d deed, on the day and year
aforesaid.		!
(Seal)		
h	Notary Public	
		!
Given Name (first and middle [if any]):	Family Name or Surname:	
Robert M.	Floyd	!
Inventor's Signature:	Date:	,
		· ·
Residence:	Country:	Citizenship:
Maplewood, Minnesota	USA	United States of America
STATE OF MINNESOTA)		
) ss.		!
COUNTY OF RAMSEY)		1
On this day of,	,, before me persona	Illy appeared the above-named
Robert M. Floyd, and who executed the foregoing instrument, a aforesaid.	as said person's free act and o	leed, on the day and year
(Seal)		
(2001)	Notary Public	
		!
Given Name (first and middle [if any]):	Family Name or Surname:	
Harold Todd	Freemyer	1
Inventor's Signature:	Date:	
l '		
Residence:	Country:	Citizenship:
Woodbury, Minnesota	USA	United States of America
STATE OF MINNESOTA)		
) ss.		
COUNTY OF RAMSEY)		
		ally appeared the above-named
Harold Todd Freemyer, and who executed the foregoing instru year aforesaid.	ument, as said person's free ac	ct and deed, on the day and
(Seal)	Cotonia Dishila	
1	Notary Public	
		I

Assignment Page 2 of 4 Case No.: 58575US002

Given Name (first and middle [if any]):	Family Name or Surname:	
Steven J.	Hamrock	
	Date:	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
Stillwater, Minnesota	USA	United States of America
STATE OF MINNESOTA)		<u>I</u>
) ss.		
COUNTY OF RAMSEY)		,
On this day of	,, before me persona	lly appeared the above-named
Steven J. Hamrock, and who executed the foregoing instrume	nt, as said person's free act ar	nd deed, on the day and year
aforesaid.		
(Seal)		
	Notary Public	
	-	
Given Name (first and middle [if any]):	Family Name or Surname:	
Given Name (first and middle [if any]): Michael A.	Family Name or Surname: Yandrasits	
Michael A.	Yandrasits	
Michael A. Inventor's Signature:	Yandrasits Date:	
Michael A. Inventor's Signature: Residence:	Yandrasits Date: Country:	Citizenship:
Michael A. Inventor's Signature:	Yandrasits Date:	Citizenship: United States of America
Michael A. Inventor's Signature: Residence:	Yandrasits Date: Country:	
Michael A. Inventor's Signature: Residence: Hastings, Minnesota STATE OF MINNESOTA)) ss.	Yandrasits Date: Country:	
Michael A. Inventor's Signature: Residence: Hastings, Minnesota STATE OF MINNESOTA)	Yandrasits Date: Country: USA	United States of America
Michael A. Inventor's Signature: Residence: Hastings, Minnesota STATE OF MINNESOTA)	Yandrasits Date: Country: USA ,, before me persona	United States of America
Michael A. Inventor's Signature: Residence: Hastings, Minnesota STATE OF MINNESOTA)	Yandrasits Date: Country: USA ,, before me persona	United States of America
Michael A. Inventor's Signature: Residence: Hastings, Minnesota STATE OF MINNESOTA)	Yandrasits Date: Country: USA ,, before me persona	United States of America
Michael A. Inventor's Signature: Residence: Hastings, Minnesota STATE OF MINNESOTA) ss. COUNTY OF RAMSEY) On this day of Michael A. Yandrasits, and who executed the foregoing instruatoresaid. (Seal)	Yandrasits Date: Country: USA ,, before me personal ment, as said person's free actions.	United States of America
Michael A. Inventor's Signature: Residence: Hastings, Minnesota STATE OF MINNESOTA) ss. COUNTY OF RAMSEY) On this day of Michael A. Yandrasits, and who executed the foregoing instruatoresaid. (Seal)	Yandrasits Date: Country: USA ,, before me persona	United States of America
Michael A. Inventor's Signature: Residence: Hastings, Minnesota STATE OF MINNESOTA) ss. COUNTY OF RAMSEY) On this day of Michael A. Yandrasits, and who executed the foregoing instruatoresaid. (Seal)	Yandrasits Date: Country: USA ,, before me personal ment, as said person's free actions.	United States of America

Assignment Page 3 of 4 Case No.: 58575US002

Given Name (first and middle [if any]):	Family Name or Surname:	
David G. S.	Walton	
Inventor's Signature:	Date: 9/10/2003	
Besidence:	Country:	Citizenship:
Honolulu, Hawaii	USA	United States of America
David G. Shibasaki Walton, and who executed the foregoing in year aforesaid.	Notary Public	ally appeared the above-named act and deed, on the day and
OF HAWKING		

Assignment Page 4 of 4 Case No.: 58575US002

RECORDED: 09/12/2003

PATENT REEL: 014502 FRAME: 0049