

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>Oscar K. Hsu</td><td>04/06/2000</td></tr><tr><td>Jean K. Vangsness</td><td>04/06/2000</td></tr><tr><td>Scott C. Billings</td><td>04/06/2000</td></tr><tr><td>David S. Gilbride</td><td>04/06/2000</td></tr></tbody></table>	Name	Execution Date	Oscar K. Hsu	04/06/2000	Jean K. Vangsness	04/06/2000	Scott C. Billings	04/06/2000	David S. Gilbride	04/06/2000	
Name	Execution Date										
Oscar K. Hsu	04/06/2000										
Jean K. Vangsness	04/06/2000										
Scott C. Billings	04/06/2000										
David S. Gilbride	04/06/2000										
RECEIVING PARTY DATA											
Name:	Freudenberg NonWovens Limited Partnership										
Street Address:	3440 Industrial Drive										
City:	Durham										
State/Country:	NORTH CAROLINA										
Postal Code:	27704										
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>10664735</td></tr></tbody></table>	Property Type	Number	Application Number:	10664735							
Property Type	Number										
Application Number:	10664735										
CORRESPONDENCE DATA											
Fax Number:	(617)523-1231										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	6175701905										
Email:	ajagenow@goodwinprocter.com										
Correspondent Name:	Andrew L. Jagenow										
Address Line 1:	53 State St./Exchange Place										
Address Line 2:	Goodwin Procter LLP/Patent Administrator										
Address Line 4:	Boston, MASSACHUSETTS 02109										
ATTORNEY DOCKET NUMBER:	IPD-002C1										
NAME OF SUBMITTER:	Andrew L. Jagenow										

CH 10664735 \$40.00

500296623

PATENT
REEL: 019434 FRAME: 0160

Total Attachments: 5

source=IPD-002C1 Assign#page1.tif

source=IPD-002C1 Assign#page2.tif

source=IPD-002C1 Assign#page3.tif

source=IPD-002C1 Assign#page4.tif

source=IPD-002C1 Assign#page5.tif

PATENT

REEL: 019434 FRAME: 0161

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Oscar K. Hsu, residing at 255 North Road, Unit 15, Chelmsford, Massachusetts 01824, Jean K. Vangsness, residing at 15 Seven Star Lane, Stow, Massachusetts 01775, Scott C. Billings, residing at 6B Kasher Drive, Kingston, New Hampshire 03848, and David S. Gilbride, residing at 64 Plummer Avenue, Lowell, Massachusetts 01852, hereby sell and assign to FREUDENBERG NONWOVENS LIMITED PARTNERSHIP, a Massachusetts limited partnership, having a principal place of business at 3440 Industrial Drive, Durham, North Carolina 27704, its successors and assigns, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries in and to our invention in

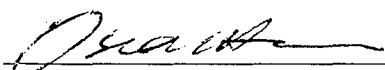
**POLISHING PADS USEFUL IN CHEMICAL MECHANICAL POLISHING OF
SUBSTRATES IN THE PRESENCE OF A SLURRY CONTAINING ABRASIVE PARTICLES**

and the application for United States Letters Patent therefor executed by us on April 6, 2000 and identified as Attorney Docket No. FREUN-118XX, and such patents as may issue thereon and all divisions, reissues and continuations and continuations-in-part thereof.

And we hereby covenant that we have full right to make such assignment, and agree for ourselves and our executors and administrators that we will, at the expense of said FREUDENBERG NONWOVENS LIMITED PARTNERSHIP, execute all applications for patents in foreign countries, execute all divisional, continuing, reissue and re-examination applications, make all rightful oaths, sign all lawful papers, testify in any proceeding in which said invention or any application or patent directed thereto may be involved, and generally do everything possible to aid said FREUDENBERG NONWOVENS LIMITED PARTNERSHIP, its successors and assigns, to obtain and enforce proper patent protection for said invention in the United States, its territories and all foreign countries.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent on said invention or resulting therefrom to FREUDENBERG NONWOVENS LIMITED PARTNERSHIP, its successors and assigns.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.



OSCAR K. HSU

Date: 4-6-00

WITNESSED BY:



Date: 4/6/2000

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.

Jean Vangness
JEAN K. VANGSNESS

Date: 4/6/00

WITNESSED BY:

Michael C. Goss

Date: 4, 6/00

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.


SCOTT C. BILLINGS

Date: 4-6-00

WITNESSED BY:


Michael Cohen

Date: 4/6/00

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.


DAVID S. GILBRIDE

Date: 4-6-00

WITNESSED BY:



Date: 4/6/00

221782