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102393695

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

<p>1. Name of conveying party(ies): Lixin L. Xue (02/05/2003), Kent B. Koller (02/03/2003), and Qiong Gao (03/04/2003) 3-17-03</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>Philip Morris USA Inc.</u></p> <p>Address: <u>120 Park Avenue</u></p> <p>City: <u>New York, New York</u></p> <p>Country: <u>US</u> Zip: <u>10017</u></p> <p>Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: <u>see Box 1, conveying parties</u></p>	

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the new application is: _____

A. Patent Application No.(s):
10/336951

B. Patent No.(s): _____

Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Richard M. Beck</u> <u>CONNOLLY BOVE LODGE & HUTZ LLP</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>P. O. Box 2207</u></p> <p>City: <u>Wilmington</u> State: <u>DE</u> Zip: <u>19899-2207</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p><input type="checkbox"/> Authorized to be charged to credit card (Form 2038 enclosed)</p> <p>8. Deposit account number: <u>03-2775</u> (Attach duplicate copy of this page if paying by deposit account)</p>
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9. Statement and signature.

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 original document.

Richard M. Beck - 22,580 Richard M. Beck March 11, 2003
Name of Person Signing Signature Date

Attv Dkt : 04981-00285-115
Total number of pages including cover sheet, attachments, and documents: 6

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Assistant Commissioner for Patents, Box Assignments, Washington, DC 20231, on the date shown below.

Dated: March 11, 2003 Signature: Amey P. Hamra

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PATENT
REEL: 013850 FRAME: 0627

ASSIGNMENT

THIS ASSIGNMENT, by Lixin Luke Xue; Kent B. Koller; and Qiong Gao, (hereinafter referred to as "the Assignors@), 14307 Huntgate Wood Road, Midlothian, VA 23112; 8401 Kintail Drive, Chesterfield, VA 23838; and 150 South Middle Neck Road, Apt. 3R, Great Neck, NY 11021, respectively, witnesseth:

WHEREAS the Assignors have made certain new and useful inventions in "**Continuous Process for Retaining Solid Adsorbent Particles on Shaped Micro-Cavity Fibers**" set forth in application for Letters Patent of the United States of America, Application Serial No. 10/336,951, filed on January 6, 2003; and

WHEREAS, PHILIP MORRIS USA INC. a corporation duly organized under and pursuant to the laws of the State of Virginia and having an office and place of business at 120 Park Avenue, New York, New York 10017, is desirous of acquiring the entire right, title, and interest in and to the inventions for the United States and the application for Letters Patent of the United States, and in any United States Letters Patent or Patents, to be obtained therefor and thereon; and

WHEREAS, PHILIP MORRIS PRODUCTS INC., a corporation organized and existing under the laws of the State of Virginia and having an office and place of business at 3601 Commerce Road, Richmond, Virginia 23234, is desirous of acquiring the entire right, title, and interest in and to the inventions for countries foreign to the United States, and in and to any foreign patent applications, and in and to any foreign Letters Patent or Patents to be obtained therefor and thereon; and

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to each of us paid and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged.

**ASSIGNMENT OF
UNITED STATES PATENT RIGHTS**

We do hereby sell, assign and transfer unto PHILIP MORRIS USA INC., its successors, assigns and legal representatives, all right, title and interest in and to the inventions for the United States, and in and to the United States patent application, including any continuations and divisions thereof, and any substitute applications therefor and any United States patents which may issue thereon and any reissues and extensions of the same; and we hereby authorize and request the Commissioner of Patents to grant and issue any and all patents on the inventions in the United States to PHILIP MORRIS USA INC. as the assignee thereof.

**ASSIGNMENT OF
FOREIGN PATENT RIGHTS**

Further in view of the consideration hereinabove referred to we do hereby sell, assign, and transfer unto PHILIP MORRIS PRODUCTS INC., its successors, assigns and legal representatives, all right, title and interest in and to the inventions for all countries foreign to the United States, including the right to claim priority under the International Convention based on the United States patent application, and in and to any foreign patent application, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any foreign patents which may issue thereon, and any reissues and extensions of the same; and we hereby authorize and request competent authorities to grant and issue any and all patents on the inventions in any foreign country to PHILIP MORRIS PRODUCTS INC. as the assignee thereof.

We further agree to execute upon request of the assignee PHILIP MORRIS USA INC. such additional documents, if any, as are necessary and proper to secure patent protection on the inventions in the United States, and to execute upon request of assignee PHILIP MORRIS PRODUCTS INC. such additional documents, if any, as are necessary and proper to secure patent protection on the inventions in countries foreign to the United States, and to otherwise give full effect

to and perfect the rights of the assignee PHILIP MORRIS USA INC. in the United States and of assignee PHILIP MORRIS PRODUCTS INC. in countries foreign to the United States.

AND for the same consideration, the Assignors hereby covenant and agree to and with the assignees, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions and any and all applications for Letters Patent above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, the Assignors hereby covenant and agree to and with the assignees, their successors, legal representatives, and assigns, that the Assignors will, whenever counsel of the assignees, or counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with the inventions or any and all applications for Letters Patent, or any proceeding in connection with Letters Patent for the inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for the inventions, without charge to the assignees, their successors, legal representatives, and assigns, but at the cost and expense of the assignees, their successors, legal representatives, and assigns.

IN TESTIMONY THEREOF, I have hereunto signed my name at the date hereinafter

indicated.

Lixin Luke Xue
Lixin Luke Xue

02/05/2003
Date

STATE OF Virginia)
CITY/COUNTY OF Richmond) SS.:

On this 5th day of February, 2003, appeared before me in person the above-named individual, and acknowledged the above to be his/her signature and that he/she signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

Francine E. Paigl
NOTARY PUBLIC
My Commission Expires: 2/28/05

(Notarial Seal)

IN TESTIMONY THEREOF, I have hereunto signed my name at the date hereinafter

indicated.

Kent B. Koller
Kent B. Koller

Feb. 3, 2003
Date

STATE OF Virginia)
CITY/COUNTY OF Richmond) SS.:

On this 3rd day of February, 2003, appeared before me in person the above-named individual, and acknowledged the above to be his/her signature and that he/she signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

Francine E. Paigl
NOTARY PUBLIC
My Commission Expires: 2/28/05

(Notarial Seal)

IN TESTIMONY THEREOF, I have hereunto signed my name at the date hereinafter

indicated.

Qiong Gao
Qiong Gao

3/4/03
Date

STATE OF New York)
CITY/COUNTY OF Nassau) : SS.:

On this 4th day of March, 2003, appeared before me in person the above-named individual, and acknowledged the above to be his/her signature and that he/she signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

Laurie E. Strand
NOTARY PUBLIC
My Commission Expires: 8/17/06

(Notarial Seal)

Laurie E. Strand
NOTARY PUBLIC, STATE OF NEW YORK
NO. 5000488
QUALIFIED IN NASSAU COUNTY
COMMISSION EXPIRES 8/17/2006

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