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Docket No. 057909-019000

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

<p>1. Name of conveying party(ies):</p> <p>1. Moon H. NAHM 2. Jisheng LIN</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: THE UAB FOUNDATION Street Address: <u>AB770, 1530 3RD Avenue South</u> City: <u>Birmingham</u> State: <u>AL</u> Country: <u>USA</u> Postal Code: <u>35294-0107</u></p>
<p>Additional name(s) of conveying party(ies) 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 <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p>	<p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>Execution Date(s): <u>September 9, 2008</u> <u>September 12, 2008</u></p>	

4. Application number(s) or patent number(s); If this document is being filed together with a new application, the filing date of the application is:

<p>A. Patent Application No.(s)</p> <p><u>Serial No. 12/097,815, filed July 17, 2008;</u> <u>PCT/US2006/049391, filed December 28, 2006;</u> <u>Serial No. 60/796,139, filed April 28, 2006; and</u> <u>Serial No. 60/754,354, filed December 28, 2005.</u></p>	<p>B. Patent No.(s)</p>
<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Attorney/Agent Name: <u>Mary S. Webster</u> Firm Name: <u>Nixon Peabody LLP</u> Internal Address: <u>Suite 900</u> Street Address: <u>401 9th Street, N.W.</u> City: <u>Washington</u> State: <u>D.C.</u> Zip: <u>20004-2128</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 type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>19-2380 (057909-019000)</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.

Mary S. Webster, Registration No. 37,156 Mary S. Webster September 19, 2008
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 1

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services, Director of the US Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450

09-24-2008 11:00 AM
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Attorney Docket No. 057909-019000

ASSIGNMENT

Serial No.: 12/097,815, filed July 17, 2008; PCT/US2006/049391, filed December 28, 2006;
Serial No. 60/796,139, filed April 28, 2006; and Serial No. 60/754,354, filed December 28, 2005.

WHEREAS, Moon H. NAHM and Jisheng LIN (hereinafter designated as the undersigned) have invented certain new and useful improvements in PNEUMOCOCCAL SEROTYPES for which an application for Letters Patent of the United States of America has been executed by the undersigned and;

WHEREAS, THE UAB FOUNDATION of AB770, 1530 3rd Avenue South, Birmingham, AL 35294-0107 its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

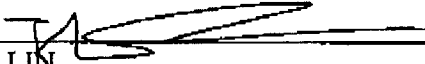
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The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of NIXON PEABODY LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

In witness thereof, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 9/12/08 Signature 
Name Moon H. NAHM

Date 9/12/2008 Signature 
Name Jisheng LIN

This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed by at least two other persons who should sign here.

Witness _____ Signature _____

Witness _____ Signature _____

Witness _____ Signature _____