


Client Code: HITACHI.090A

**RECORDATION FORM COVER SHEET  
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To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<b>1. Name of conveying parties:</b> 1. Cindy Yamamoto 2. Toshit Sen Additional names of conveying parties attached? ( ) Yes (X) No	<b>2. Name and address of receiving parties:</b> <b>a. Name:</b> Hitachi Chemical Co., Ltd. <b>Street Address:</b> 1-1 Nishi-Shinjuku 2-chome, Shinjuku-ku <b>City:</b> Tokyo <b>Country:</b> Japan <b>ZIP:</b> 163-0449 <b>b. Name:</b> Hitachi Chemical Research Center, Inc. <b>Street Address:</b> 1003 Health Sciences Road <b>City:</b> Irvine <b>State:</b> CA <b>ZIP:</b> 92617 Additional names of receiving parties attached? ( ) Yes (X) No
<b>3. Nature of conveyance:</b> (X) Assignment ( ) Security Agreement ( ) Merger ( ) Change of Name ( ) Other: Execution Date: 1. April 15, 2009 2. April 15, 2009	<b>4. US or PCT Application number(s) or US Patent number(s):</b> (X) Patent Application No.: 12/422,971 <b>Filing Date:</b> April 13, 2009 Additional numbers attached? ( ) Yes (X) No
<b>5. Party to whom correspondence concerning document should be mailed:</b> <b>Customer No.</b> 20,995 <b>Address:</b> Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14 <sup>th</sup> Floor Irvine, CA 92614 <b>Return Fax:</b> (949) 760-9502 <b>Attorney's Docket No.:</b> HITACHI.090A	<b>6. Total number of applications and patents involved:</b> 1
<b>7. Total fee (37 CFR 1.21(h)):</b> \$40 (X) Authorized to be charged to deposit account	<b>8. Deposit account number:</b> 11-1410 Please charge this account for any additional fees which may be required, or credit any overpayment to this account.
<b>9. Statement and signature.</b> 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. <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;"> <b>Umar A. Qadeer</b>            Name of Person Signing            54,380            Registration No.         </div> <div style="text-align: center;">             Signature         </div> <div style="text-align: center;"> <b>4/17/09</b>            Date         </div> </div> <div style="text-align: center; margin-top: 20px;">           Total number of pages including cover sheet, attachments and document: 4         </div>	

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**PATENT**  
**REEL: 022565 FRAME: 0520**

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### ASSIGNMENT

WHEREAS, We, Cindy Yamamoto, a U.S. citizen, residing at 34 Duet, Irvine, CA 92603, and Toshit Sen, an Indian citizen, residing at 15506 Williams Street, #F, Tustin, CA 92780, have invented certain new and useful improvements in NOVEL APTAMERS THAT BIND TO LISTERIA SURFACE PROTEINS for which we have filed an application for Letters Patent in the United States, Application No. 12/422,971, filed on April 13, 2009;

AND WHEREAS, HITACHI CHEMICAL CO., LTD., a Japanese Corporation, with its principal place of business at 1-1 Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo, Japan 163-0449; and HITACHI CHEMICAL RESEARCH CENTER, INC., a California Corporation, with its principal place of business at 1003 Health Sciences Road, Irvine, CA 92617 (hereinafter jointly referred to as "ASSIGNEES"), desire to jointly acquire the entire right, title, and interest in and to said improvements and said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, said inventors, do hereby acknowledge that we have sold, assigned, transferred, and set over, and by these presents do hereby sell, assign, transfer, and set over, unto said ASSIGNEES, their successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under said improvements, and said application including all provisional applications relating thereto (including but not limited to U.S. Application Nos. 61/044,365, filed April 11, 2008; 60/832,648, filed July 21, 2006; and 60/876,929, filed December 22, 2006), and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals, and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said ASSIGNEES, their successors, legal representatives, and assigns, in accordance with the terms of this instrument.

AND WE DO HEREBY sell, assign, transfer, and convey to ASSIGNEES, their successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEES, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND WE HEREBY covenant and agree that we will communicate to said ASSIGNEES, their successors, legal representatives, and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid said ASSIGNEES, their successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 15 day of April, 2009.

  
Cindy Yamamoto

STATE OF ~~CALIFORNIA~~ }  
COUNTY OF ~~ORANGE~~ } ss.

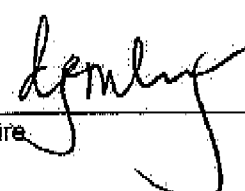
On 4/15/2009, before me, HUNG MANH DANG, notary public, personally appeared Cindy Yamamoto who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]



  
Notary Signature

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 15 day of April, 2009

  
Toshit Sen

STATE OF CALIFORNIA  
COUNTY OF ORANGE } ss.

On 4/15/2009, before me, HUNG MANH DANG, notary public, personally appeared Toshit Sen who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument; and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]



  
Notary Signature

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