

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027

01-18-2002



101953168

U.S. Department of Commerce
Patent and Trademark Office
PATENT

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New 1-9-02

Resubmission (Non-Recordation)
Document ID#

Correction of PTO Error
Reel # Frame #

Corrective Document
Reel # Frame #

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other

U.S. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date
Month Day Year
05 23 01

Name (line 1)

Name (line 2)

Second Party

Execution Date
Month Day Year
05 23 01

Name (line 1)

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

01/17/2002 AAHME1 00000068 190365 09909062

01 FD:581 40.00 CH

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Correspondent Name and Address

Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages Enter the total number of pages of the attached conveyance document including any attachments. #

Application Number(s) or Patent Number(s) Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

<input type="text" value="09/909,062"/>	<input type="text"/>					
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

Number of Properties Enter the total number of properties involved. #

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed Deposit Account

Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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

Palaiyur Kalyanaraman
Name of Person Signing


Signature

November 7, 2001
Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Raymond G. Lovey

Execution Date
Month Day Year

05 23 01

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Edwin Jao

05 23 01

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Frank Bennett

05 23 01

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

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RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Yi-Tsung Liu

Execution Date
Month Day Year
05 30 01

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Ashok Arasappan

05 23 01

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Patrick A. Pinto

05 24 01

Name (line 2)

Receiving Party(ies)

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Patent Number(s)

RECORDATION FORM COVER SHEET
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PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) F. George Njoroge

Execution Date
Month Day Year

05 30 01

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Ashit Ganguly

05 22 01

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

ASSIGNMENT

For good and valuable consideration paid to us,

- (1) ANIL K. SAKSENA (2) VIYYOOR MOOPIL GIRIJAVALLABHAN
- (3) RAYMOND G. LOVEY (4) EDWIN. JAO
- (5) FRANK BENNETT (6) JINPING L. MC CORMICK
- (7) HAIYAN WANG (8) RUSSELL E. PIKE
- (9) STEPHANE L. BOGEN (10) YI-TSUNG LIU
- (11) ASHOK ARASAPPAN (12) TEJAL PAREKH
- (13) PATRICK A. PINTO (14) F. GEORGE NJOROGÉ
- (15) ASHIT K. GANGULY (16) TERENCE K. BRUNCK
- (17) SCOTT JEFFREY KEMP (18) ODILE ESTHER LEVY
- (19) MARGUERIUTA LIM-WILBY

respectively residing at

- (1) UPPER MONTCLAIR, NJ (2) PARSIPPANY, NJ
- (3) WEST CALDWELL, NJ (4) WARREN, NJ
- (5) PISCATAWAY, NJ (6) EDISON, NJ
- (7) DAYTON, NJ (8) STANHOPE, NJ
- (9) SOMERSET, NJ (10) MORRIS TOWNSHIP, NJ
- (11) BRIDGEWATER, NJ (12) WOODBRIIDGE, NJ
- (13) MORRIS PLAINS, NJ (14) UNION, NJ
- (15) UPPER MONTCLAIR, NJ (16) SANTA FE, NEW MEXICO
- (17) SAN DIEGO, CA (18) SAN DIEGO, CA
- (19) LA JOLLA, CA

by **SCHERING CORPORATION**, a corporation organized under the laws of the State of New Jersey, United States of America, having its principal office at 2000 Galloping Hill Road, Kenilworth, New Jersey 07033 , United States of America, (hereinafter called "**ASSIGNEE**"), we each do hereby sell, assign and transfer to said **ASSIGNEE** each of our entire right, title and interest in all countries of the world in and to any and all of our inventions and discoveries described in the patent application entitled NOVEL PEPTIDES AS NS3-SERINE PROTEASE INHIBITORS OF HEPATITIS C VIRUS

and officially identified* by the United States Patent and Trademark Office as Application Number 09/909,062 filed on July 19, 2001 , and/or by the World Intellectual Property Organization as International Patent Application Number _____ filed on _____, 20____ , in and to the right to file patent applications in the name of **ASSIGNEE**, its designee, or in any or all of our names, at its election, on the aforesaid inventions and discoveries in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified patent application under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to

Inventions, Patents, Designs and Industrial Models and under any other international arrangement to which the United States now is or hereafter becomes a signatory, in and to any and all Letters Patent that issue on any of the aforesaid patent applications, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said inventions, and in and to any continuations, divisions, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said **ASSIGNEE**, its successors, assigns and other legal representatives, to the full ends of the terms for which a Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby covenant and agree that we will at any time, upon the request and at the expense of **ASSIGNEE**, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, and Letters Patent and continuations, divisions, reissues, renewals and extensions thereof in **ASSIGNEE**, its successors, assigns or other legal representatives, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and that we will, at any time, upon the request and at the expense of **ASSIGNEE**, execute any additional or divisional applications for patents for said inventions and discoveries, or any part or parts thereof, and applications for patents of confirmation, registration and importation based on said Letters Patent and on Letters Patent issuing from said additional or divisional applications and reissues, renewals and extensions therefor, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of **ASSIGNEE**, its successors, assigns or other legal representatives.

*We hereby authorize **ASSIGNEE** to insert in this instrument the Application Number and the filing date of said application for Letters Patent when officially notified thereof.

Executed this 23rd day of May, 2001.
Anil K. Saxena L.S.
ANIL K. SAKSENA

Executed this 23rd day of May, 2001.
Vijayoor Moopil Girijavallabhan L.S.
VIYYOOR MOOPIL GIRIJAVALLABHAN

Executed this 23rd day of May, 2001.
Raymond G. Lovey L.S.
RAYMOND G. LOVEY

Executed this 23rd day of May, 2001.

Edwin Jao

L.S.

EDWIN. JAO

Executed this 25th day of May, 2001.

Frank Bennett

L.S.

FRANK BENNETT

Executed this 8th day of June, 2001.

Jinping L. Mc Cormick

L.S.

JINPING L. MC CORMICK

Executed this _____ day of _____, 20____.

L.S.

HAIYAN WANG

Executed this 30th day of May, 2001.

Russell E. Pike

L.S.

RUSSELL E. PIKE

Executed this 23rd day of May, 2001.

Stephane L. Bogen

L.S.

STEPHANE L. BOGEN

Executed this 5th day of May, 2001.

Yi-Tsung Liu

L.S.

YI-TSUNG LIU

Executed this 23rd day of May, 2001.

Ashok Arasappan

L.S.

ASHOK ARASAPPAN

Executed this _____ day of _____, 20_____.

L.S.

TEJAL PAREKH

Executed this 24th day of MAY, 2001.

Patrick A. Pinto

L.S.

PATRICK A. PINTO

Executed this 30th day of MAY, 2001.

F. George Njoroge

L.S.

F. GEORGE NJOROGE

Executed this 22nd day of May, 2001.

Ashit Ganguly

L.S.

ASHIT GANGULY

Executed this _____ day of _____, 20_____.

L.S.

TERENCE K. BRUNCK

Executed this _____ day of _____, 20_____.

L.S.

SCOTT JEFFREY KEMP

Executed this _____ day of _____, 20_____.

L.S.

ODILE ESTHER LEVY

Executed this _____ day of _____, 20_____.

L.S.

MARGUERITA LIM-WILBY