

Form PTO-1595

U.S. DEPARTMENT OF COMMERCE

(Rev. 10/02) 1U2435 OMB No. 0651-0027 (exp. 6/30/2005)	0.5. Patent and Trademark Office
Tab settings ⇔⇔⇔ ▼	y y y y
	Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): /1.12.72	Name and address of receiving party(ies)
Ashok Arasappan	Name: Schering Corporation
Frank Bennett	Internal Address: 2000 Galloping Hill Road
Stephane L. Bogen	
Additional name(s) of conveying party(ies) attached? Yes Q No	
3. Nature of conveyance:	Kenilworth, New Jersey 07033
🖎 Assignment 📮 Merger	Game as allows
Security Agreement Change of Name	Street Address: Same as above.
Other	
	City:State:Zip:
Execution Date: February 25, 2003 and February 27, 2003	Additional name(s) & address(es) attached? 📮 Yes 🎽 No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new appli	cation, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
10/348,094	
Additional numbers att	ached? 📮 Yes 🌠 No
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:
concerning document should be mailed:	7 Total (12 CER 2.44)
Name: Palaiyur S. Kalyanaraman	7. Total fee (37 CFR 3.41)\$_40.00
Internal Address: Schering-Plough Corporation	Enclosed
Patent Dept. K-6-1, 1990	Authorized to be charged to deposit account
2000 Callering Hill Book	o. Deposit account number.
Street Address: 2000 Galloping Hill Road	19-0365 M = 5
	Schering-Plough Corporation
City: Kenilworth State: NJ Zip: 07033-0530	(Attach duplicate copy of this page if paying by deposit accounts)
DO NOT USE	THIS SPACE
9. Statement and signature.	
To the best of my knowledge and belief, the foregoing is a true copy of the original document.	nformation is true and correct and any attached copy
Palaiyur S. Kalyanaraman, Reg. No. 34,634	April 21, 2003
Name of Person Signing	Signature Date
Total number of pages including cover	er sheet, attachments, and documents: 15
	required cover sheet information to:

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64/29/2003 TDIAZ1

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Washington, D.C. 20231

PATENT

FORM PTO-1619C Expires 06/30/99

RECORDATION FORM COVER SHEET CONTINUATION

U.S. Department of Commerce Patent and Trademark Office

OMB 0651-0027		PATENTS C	NLY		PATENT
Conveying	Party(ies) I Conveying Parties	Mark If additio	nal names of conveying	parties attached	Execution Date
	Kevin X. Chen				Month Day Year 02 25 03
	TCVIII 74. CIICII				02 23 03
Name (Ilne 2)					Execution Date Month Day Year
Name (line 1)	Edwin Jao				02 25 03
Name (line 2)					Execution Date
Name (line 1)	Yi-Tsung Liu				Month Day Year 02 25 03
Name (line 2)					
Receiving F	Party(ies)		lark if additional names	of receiving partie	s attached
Enter additiona	l Receiving Party(ies)				
Name (line 1	Schering Corporation				if document to be recorded is an assignment and the
Name (line 2	2)				receiving party is not domiciled in the United States, an appointment
Address (line	1) 2000 Galloping Hill Road				of a domestic representative is attached. (Designation must be a separate
Address (line:	2)				document from Assignment.)
Address (line	(Kenilworth City	NJ/USA	State/Country	07033 Zip Cod	le .
Name (line	1)				If document to be recorded is an assignment and the
Name (line	2)				receiving party is not domiciled in the United States, an appointment of a
Address (line	1)				domestic representative is attached. (Designation must be a separate document from
Address (line 2	2)				Assignment.)
Address (line :	City		State/Country	Zip C	ode
	Number(s) or Patent N the Patent Application Number or		Mark if additional nu		ime property).
	Patent Application Number	(s)		Patent Numb	per(s)
10/348,094					

PATENT

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

RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

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

Conveying Party(ies) Mark if additional names of conveying parties at	tached	Execution Date
Enter additional Conveying Parties		Month Day Year
Name (line 1) Raymond G. Lovey		02 25 03
Name (line 2)		_
		Execution Date Month Day Year
Name (line 1) Vincent S. Madison		02 27 03
Name (line 2)		_
		Execution Date Month Day Year
Name (line 1) Latha G. Nair		02 25 03
Name (line 2)		
Receiving Party(ies) Mark if additional names of receiv	ing parties a	ttached
Enter additional Receiving Party(ies)		_
Name (line 1) Schering Corporation		document to be recorded an assignment and the
Name (line 2)	d.	ceiving party is not omiciled in the United
Address (line 1) 2000 Galloping Hill Road		tates, an appointment a domestic representative attached. (Designation
2000 Ganoping Till Koau		ust be a separate ocument from
Address (line 2)		ssignment.)
Address (line 3)	7033	
City State/Country	Zip Code	
Name (line 1)		document to be recorded an assignment and the
Name (line 2)	re	ceiving party is not miciled in the United
	do	ates, an appointment of a mestic representative is
Address (line 1)		tached. (Designation must a separate document from signment.)
Address (line 2)		
Address (line 3)	Zip Code	
Application Number(s) or Patent Number(s) Mark if additional numbers a		
Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers	for the same	
	t Number	
10/348,094		

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

RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

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

Conveying Party(i	es)			
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	e Njoroge			Month Day Year 02 25 03
	5 JUN 25-			
Name (line 2)				Execution Date
A 11 TZ (~ 1			Month Day Year
Name (line 1) Anil K. S	Saksena			02 21 03
Name (line 2)				Execution Date
				Month Day Year
Name (line 1) Mousum	ii Sannigrahi			02 25 03
Name (line 2)				
Receiving Party(ie	es)	Mark if additional names of	receiving parties	s attached
Enter additional Receive	ing Party(ies)		- ·	
Name (line 1) Scher	ring Corporation			If document to be recorded is an assignment and the
Name (line 2)				receiving party is not domiciled in the United
regine (inte 2)				States, an appointment of a domestic representative
Address (line 1) 2000	Galloping Hill Road			is attached. (Designation must be a separate
Address (line 2)				document from Assignment.)
Address (line 3) Kenil	worth	NJ/USA State/Country	07033 Zip Code	
		-		
Name (line 1)				if document to be recorded is an assignment and the
Name (line 2)				receiving party is not domiciled in the United
				States, an appointment of a domestic representative is
Address (line 1)				attached. (Designation must be a separate document from
Address (line 2)				Assignment.)
Address (" -> [
Address (line 3)	City	State/Country	Zip Ço	de
Application Numb	er(s) or Patent Number	Mark if additional num		ne property)
		nt Number (DO NOT ENTER BOTH nu	mbers for the san Patent Numbe	
	Application Number(s)		- Grott Haillo	
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RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

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

OMB 0651-0027		PATENTS	ONLY		PATENT
Conveying Pa	arty(ies)	Mark If additi	onal names of conveying p	arties attached	Execution Date
Enter additional C	Conveying Parties				Month Day Year
Name (line 1) Sr	ikanth Venkatraman				02 25 03
Name (line 2)					Execution Date
_					Month Day Year
Name (line 1)	iyyoor M. Girijavallabhan				02 27 03
Name (line 2)					Execution Date Month Day Year
Name (line 1)					
Name (line 2)					
Receiving Pa	rty(ies)		Mark if additional names of	of receiving partic	es attached
Enter additional I	Receiving Party(ies)	L			
Name (line 1)	Schering Corporation				If document to be recorded is an assignment and the
Name (line 2)					receiving party is not domiciled in the United States, an appointment
Address (line 1)	2000 Galloping Hill Road				of a domestic representative is attached. (Designation must be a separate
Address (line 2)					document from Assignment.)
Address (line 3)	Kenilworth City	NJ/USA	State/Country	07033 Zip Cod	de
Name (line 1)					if document to be recorded is an assignment and the
Name (line 2)					receiving party is not domiciled in the United States, an appointment of a
Address (line 1)		1000-000-0			domestic representative is attached. (Designation must be a separate document from
Address (line 2)				- 	Assignment.)
Address (line 3)	Clby		State/Country	Zio C	ode
Application N	lumber(s) or Patent N	lumber(s)	Mark if additional nu	mbers attached	
Enter either the	e Patent Application Number or	the Patent Number		umbers for the sa	
Pa	atent Application Number	(s)		Patent Numb	per(s)
10/348,094					

PATENT

PATENT CASE: IN01539K

ASSIGNMENT

For good and valuable consideration paid to us,

(1)	ASHOK ARASAPPAN,	(8)	VINCENT S. MADISON
(2)	FRANK BENNETT ,	(9)	LATHA G. NAIR
(3)	STEPHANE L. BOGEN	(10)	F. GEORGE NJOROGE
(4)	KEVIN X. CHEN	(11)	ANIL K. SAKSENA
(5)	EDWIN JAO,	(12)	MOUSUMI SANNIGRAHI
(6)	YI-TSUNG LIU,	(13)	SRIKANTH VENKATRAMAN
(7)	RAYMOND G. LOVEY ,	(14)	VIYYOOR M. GIRIJAVALLABHAN
(1)	pectively residing at Bridgewater, NJ,	(8)	Mountain Lakes, NJ
(2)	Cranford, NJ	(9)	Edison, NJ
$(\overline{3})$	Somerset, NJ	(10)	Warren, NJ
(4)	Edison, NJ ,	(11)	Upper Montclair, NJ
(5)	Warren, NJ ,	(12)	Summit, NJ
(6)	Morris Township, NJ ,	(13)	Woodbridge, NJ
(7)	West Caldwell, NJ	(14)	Parsippany, NJ

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** our entire rights, 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 COMPOUNDS AS NS3-SERINE PROTEASE INHIBITORS OF HEPATITIS C VIRUS and officially identified* by the United States Patent and Trademark Office as Application Number 10/348,094 filed on 01/21/2003, 20, and/or by the World Intellectual Property Organization as International Patent Application Number PCT/US03/01752 filed on January 21, 2003, 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 are granted from 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

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

the terms for which all 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.

PATENT CASE: IN01539K

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 25 day of February, 2003.

ASHOK ARASAPPAN

ACKNOWLEDGEMENT

State of MEW LEAS ES

County of Linion)s

in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

SHAWN M ARMSTRONG A Notary Public of New Jersey My Commission Expires May 15, 2005

Executed this 27 day of HOBRUTKY, 2003.
L.S.
FRANK BENNETT
ACKNOWLEDGEMENT
State of NEW JERSEY
County of) s.s.:
On this 27 day of Todunay, 20 3personally appeared before me
Frank Bennett to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of
his (her) own free will for the purpose set forth.
(Seal)
A second
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LI DUUR M. ASMISTER
Notary Public
SHAWN M ARMSTRONG A Notary Public of New Jersey
My Commission Expires May 15, 2005 Executed this 25 , day of $\frac{7}{16}$
Executed this <u>25</u> day of <u>Tebluay</u> , 20 <u>03</u> .
L.S.
STEPHANE L. BOGEN
ACKNOWLEDGEMENT
State of NEUSELSEY) s.s.:
County of <u>Union</u>
On this <u>a5</u> day of <u>FERNARY</u> , 20 <u>63</u> , personally appeared before me Stephane L. Bogen to me known, and known by me to be the same person
Stephane L. Bogen to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
Seal)
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/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Notary Public ,

SHAWN M ARMSTRONG
A Notary Public of New Jersey
My Commission Expires May 15, 2005

Executed this 25th day of Feburary, 2003.	
8.	
KEVIN X. CHEN	
ACKNOWLEDGEMENT	
State of New JEKSTY)	
County of Union s.s.:	
On this 25 day of February, 20 5 personally appeared before me Kevin X. Chen to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of	
nis (her) own free will for the purpose set forth.	
(Seal)	
James Public Orneston	<u>ک</u> ر
Notary Public SHAWN M ARMSTRONG A Notary Public of New Jersey	T
My Commission Expires May 15, 2005	
Executed this 35 Kday of Feb , 20 03. L.S. EDWIN JAO	
ACKNOWLEDGEMENT	
State of Now Autor) s.s.:	
County of	
On this 25 day of Festivity, 2053, personally appeared before me to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his	
(her) own free will for the purpose set forth.	
(Seal)	
January Public Notary Public)
SHAWN M ARMSTRONG A Notary Public of New Jersey	
My Commission Expires May 15, 2005	

PATENT CASE: IN01539K

Executed this $\frac{27\%}{2}$ day of $\frac{\text{F.M. wary}}{200}$, 200 .
for Live L.S.
YI-JSUNG LIU
ACKNOWLEDGEMENT
State of NGW JERSEY)
County of UN'ON s.s.:
On this 25 day of FBHMMY20 63 personally appeared before me Yi-Tsung Liu to me known, and known by me to be the same person described in
and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal)
Drun M. armstry
Notary Public
SHAWN M ARMSTRONG A Notary Public of New Jersey My Commission Expires May 15, 2005
Executed this 25 day of February, 2003. Kaynund G. Loney L.S.
Kayn 19 Ferry 18
RAYMOND G. LOVEY
ACKNOWLEDGEMENT
State of NEW ERSTY) s.s.:
County of Union)
On this 35 day of **TERMARY , 2053, personally appeared before me Raymond G. Lovey to me known, and known by me to be the same person
Raymond G. Lovey to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal)
DAMAN M CENTShank
Notary Public
SHAWN M ARMSTRONG
A Notary Public of New Jersey

PATENT REEL: 014016 FRAME: 0479

My Commission Expires May 15, 2005

Executed this 27th day of February, 2003.
Vincent & Madrow L.S.
VINCENT S. MADISON
ACKNOWLEDGEMENT
State of Mow Jensey County of Union s.s.:
On this
(Seal)
(Ocal)
Motary Public Notary Public
SHAWN M ARMSTRONG
A Notary Public of New Jersey My Commission Expires May 15, 2005 Executed this 25 day of
L.S.
LATHA G. NAIR
LATHA G. NAIR
ACKNOWLEDGEMENT
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PATENT CASE: <u>IN01539K</u>

Executed this 25 day of femrey, 2003.
f- George Njorvege L.S.
F. GEORGE NJOROGE
ACKNOWLEDGEMENT
State of MW SENSEY County of Will s.s.:
On this
nis (ner) own free will for the purpose set forth.
(Seal)
Notary Public Notary Public
SHAWN M ARMSTRONG
A Notary Public of New Jersey My Commission Expires May 15, 2005
Executed this 21 day of FERRUARY, 20 03. And K. Saksena L.S.
ANIL K. SAKSENA
ACKNOWLEDGEMENT
State of NEW SERSEY)
County of
On this $\frac{2}{1000}$ day of $\frac{10000}{10000}$, personally appeared before me
Anil K. Saksena to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
Seal)
ThawaM. armstrong
Notary Public /

SHAWN M ARMSTRONG
A Notary Public of New Jersey
My Commission Expires May 15, 2005

Executed this <u>25</u> day of <u>February</u> , 20 <u>03</u> .
M. Samigrati L.S.
MOUSUMI SANNIGRAHI
ACKNOWLEDGEMENT
State of MEW SHIFY)
County of Lemon s.s.:
On this 25 day of 1500 day, 20 personally appeared before me Mousumi Sannigrahi to me known, and known by me to be the same
person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal)
Dawal W. Wintston
Notary Public
SHAWN M ARMSTRONG A Notary Public of New Jersey
My Commission Expires May 15, 2005
Executed this <u>25</u> day of <u>7e bruary</u> , 20 <u>o 3.</u>
Lo √L.s.
SRIKANTH VENKATRAMAN
ACKNOWLEDGEMENT
State of Mousey
State of <u>NEWERSEY</u>)) s.s.: County of <u>UniON</u>
On this <u>25</u> day of <u>FGBRUARD</u> , 20 <u>5</u> , personally appeared before me <u>Srikanth Venkatraman</u> to me known, and known by me to be the same person
described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal)
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The along the action

SHAWN M ARMSTRONG A Notary Public of New Jersey My Commission Expires May 15, 2005

Executed this 21 day of February, 2003.

LE Caralalan L.S.

VIYYOOR M. GIRIJAVALLABHAN

ACKNOWLEDGEMENT

State of Mic

County of Umion

RECORDED: 04/28/2003

(Seal)

Notary Public

SHAWN M ARMSTRONG A Notary Public of New Jersey My Commission Expires May 15, 2005