1131439

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK L. SMITH	12/19/2005

RECEIVING PARTY DATA

Name:	SCHERING-PLOUGH ANIMAL HEALTH CORPORATION
Street Address:	1095 MORRIS AVENUE
City:	UNION
State/Country:	NEW JERSEY
Postal Code:	07083-7143

Name:	SCHERING-PLOUGH LTD.
Street Address:	WEYSTRASSE 20
Internal Address:	P.O. BOX CH-6000
City:	LUCERNE 6
State/Country:	SWITZERLAND

Name:	SCHERING-PLOUGH PTY. LIMITED
Street Address:	11 GIBBON ROAD
Internal Address:	BAULKHAM HILLS
City:	NEW SOUTH WALES
State/Country:	AUSTRALIA
Postal Code:	2153

PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	11314397
Application Number:	60640408
Application Number:	60665690

CORRESPONDENCE DATA

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Address Line 4: KENILWORTH, NEW JERSEY 07033

ATTORNEY DOCKET NUMBER: AH06258US01

NAME OF SUBMITTER: SHAWN ARMSTRONG

Total Attachments: 6

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ASSIGNMENT

For good and valuable considerati	on, receipt of which is acknowledged,
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(1) David E. Junker , (2) Mark D. Cochran , (3) Mark L. Smith ,	(4) Kenneth E. Palmer, (5) Gregory P. Pogue,
respectively residing at	
(1) San Diego, CA (2) Carlsbad, CA (3) Davis, CA	(4) Vacaville CA , (5) Vacaville, CA ,

we each do hereby sell, assign and transfer to SCHERING-PLOUGH ANIMAL HEALTH CORPORATION, a corporation organized under the laws of the State of Delaware, having its principal offices at 1095 Morris Avenue, Union, New Jersey 07083-7143, with respect to the United States of America, SCHERING-PLOUGH LTD., a corporation organized under the laws of Switzerland, having its principal office at Weystrasse 20, P.O. Box CH-6000, Lucerne 6, Switzerland, with respect to all other countries of the world, except Australia, and SCHERING-PLOUGH PTY. LIMITED, a corporation organized under the laws of Australia, having is principal office at 11 Gibbon Road, Baulkham Hills, New South Wales 2153, Australia, with respect to Australia (each, an "ASSIGNEE" with respect to the identified country(ies)) our respective entire rights, title and interest, in the respective country(ies) of the world:

in and to any and all of our invention(s) and discovery(ies) described in the patent applications, entitled

NEUTRALIZING EPITOPE-BASED GROWTH ENHANCING VACCINE

and officially identified* by the United States Patent and Trademark Office as provisional Application Number 60/640,408 filed on December 30, 2004, provisional Application Number 60/665,690 filed on March 28, 2005, non-provisional Application Number 11/314,397 filed on December 21, 2005

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and/or by the World Intellectual Property Organization as International Patent US2005/046363 filed on <u>December 21, 2005</u>; in Application Number and to the right to file patent applications in the name of the respective ASSIGNEE, its designee, or in any or all of our names, at such ASSIGNEE's election, on the aforesaid invention(s) and discovery(ies) in the country(ies) of the world it selects, together with any or 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/or 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 and all applications claiming priority benefits from one or more provisional patent or other applications filed on said invention(s) and discovery(ies); and in and to any and all continuations, continuations-in-part, divisions, reissues, re-examinations, confirmations, additions, registrations, renewals, and revivals of any of said Letters Patent, and any and all extensions and supplementary protection certificates based thereon, the same to be held and enjoyed by each respective ASSIGNEE, its successors, assigns and other legal representatives, to the full ends of the terms for which a Letters Patent therefor and any extensions and supplementary protection certificates based thereon 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 any ASSIGNEE(S), execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention(s) and discovery(ies), patent application(s), and Letters Patent, and any continuations, continuations-in-part, divisions, reissues, re-examinations, confirmations, additions, registrations, renewals, and revivals thereof, and any extensions and supplementary protection certificates based thereon, in the respective ASSIGNEE(S), its/their successors, assigns and/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(ies) concerned, and that

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we will, at any time, upon the request and at the expense of ASSIGNEE(S), execute any additional, continuation, continuation-in-part, divisional, reissue or reexamination applications for patents for said invention(s) and discovery(ies), or any part or parts thereof, and applications for confirmation, registration, addition, renewal, revival, importation, extension and/or supplementary protection certificate based on said Letters Patent, and on Letters Patent issuing from said additional, continuation, continuation-in-part or divisional applications and reissues, reexaminations, registrations, additions, renewals and revivals thereof, 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 the respective ASSIGNEE(S), its/their successors, assigns and/or other legal representatives.

*We hereby authorize any **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	day of	, 20	
DAVID E. JUNKER		L.S.	
ACKNOWLEDGEME	NT		
State of)		
State of) s.s.:)		
same person descri	day of to to bed in and who exe (she) executed the	ecuted the foreac	oing instrument and
(Seal)			
Notary F	'ublic		

Assignment (Joint) Page 4	PATENT CASE: AH06258US01
Executed this day of	, 20
MARK D. COCHRAN	_L.S.
ACKNOWLEDGEMENT	
State of)	
State of) s.s.: County of)	
On this day of to appeared before me _Mark D. Cochran to same person described in and who e acknowledged that he (she) executed the purpose set forth.	xecuted the foregoing instrument, and
(Seal)	
Notary Public	
Executed this 19 day of December MARK L, SMITH ACKNOWLEDGEMENT	
State of)	
) s.s.: County of)	
	ecuted the foregoing instrument and
(Seal)	
Notary Public	ee attached ca Notary Public.
Notary Public	a attached .
5	Notary PATENT

Assignment (Joint) Page 5	PATENT CASE: AH06258US01
Executed this day of	
KENNETH E. PALMER	L.S.
ACKNOWLEDGEMENT	
State of)	
State of)) s.s.: County of)	
On this day of appeared before me Kenneth E. Palmer to same person described in and who exe acknowledged that he (she) executed the spurpose set forth.	ecuted the foregoing instrument, and
(Seal)	
Notary Public	
Executed this day of	_ , 20
GREGORY P. POGUE	S.
ACKNOWLEDGEMENT	
State of)	
) s.s.: County of)	
On this day of appeared before me <u>Gregory P. Pogue</u> to same person described in and who exe acknowledged that he (she) executed the spurpose set forth.	me known, and known by me to be the cuted the foregoing instrument, and
(Seal)	
Notary Public	

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California	
County of Salama	ss
County of Column	
On December 19, 2005, before me, spersonally appeared Mark Li Sn	Sharrow T. Then constill an
personally appeared Mark / Sn	Name and Title of Officer (e.g., "Jane Dob, Notary Public
	Name(s) of Signer(s)
	Apersonally known to me
	proved to me on the basis of satisfactor evidence
State of California County of Solano On December 19, 2005, before me, solar of Mark L. Solar of Mark L. Solar of Commission # 1368092 Notar, Public - California Solar of County My Comm. Expires Aug 21, 2006 Though the information below is not required by law, it may prove we traudulent removal and reattachment of the county of the co	to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
	WITNESS my hand and official seat.
	Sharron Shongar Signature of Notary Public
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PATENT REEL: 017390 FRAME: 0782

RECORDED: 03/30/2006