

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kevin A. O'Connell</td> <td>12/14/2012</td> </tr> <tr> <td>Rangappa Narayana Ramachandra</td> <td>12/14/2012</td> </tr> <tr> <td>Terri L. Wasmoen</td> <td>12/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kevin A. O'Connell	12/14/2012	Rangappa Narayana Ramachandra	12/14/2012	Terri L. Wasmoen	12/14/2012		
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Rangappa Narayana Ramachandra	12/14/2012										
Terri L. Wasmoen	12/14/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Intervet Inc.</td> </tr> <tr> <td>Street Address:</td> <td>556 Morris Avenue</td> </tr> <tr> <td>City:</td> <td>Summit</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>07901</td> </tr> </table>		Name:	Intervet Inc.	Street Address:	556 Morris Avenue	City:	Summit	State/Country:	NEW JERSEY	Postal Code:	07901
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 7325944720 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 732 594-1140 Email: US_efs@merck.com Correspondent Name: Merck Sharp & Dohme Corp. Address Line 1: 126 E. Lincoln Avenue Address Line 2: RY86-2011A Address Line 4: Rahway, NEW JERSEY 07065</p>											
ATTORNEY DOCKET NUMBER:	2010.023-US-PCT										
NAME OF SUBMITTER:	Barbara Myskowski										
Signature:	/Barbara Myskowski/										

Date:

07/09/2013

Total Attachments: 6

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WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Kevin A. O'Connell, located at Omaha, Nebraska, U.S.A.,
- (2) Rangappa Narayana Ramachandra, located at Sinking Spring, Pennsylvania, U.S.A.,
- (3) Terri L. Wasmoen located at Omaha, Nebraska, U.S.A.,

(hereinafter ASSIGNOR(S)), am/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

VACCINE AGAINST EHRLICHIA CANIS

and/or in the following application(s):

EP Application No. 10178177.1 filed on September 22, 2010;
U.S. Provisional Application No. 61/360.969 having a filing date of July 2, 2010;
PCT International Application No. PCT/US2011/042323 having a filing date of July 2, 2010; and
U.S. Application No. 13/805.490 having a filing date of December 19, 2012.

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, INTERVET INC., a corporation organized under the laws of Delaware, having its principal office at 556 Morris Avenue, Summit, New Jersey 07901, with respect to the United States of America, and INTERVET INTERNATIONAL B.V., a corporation organized under the laws of the Netherlands, having its principal office at Wim de Körverstraat 35, 5831 AN, Boxmeer, Netherlands, with respect to all other countries of the world (hereinafter, each an **ASSIGNEE** with respect to the identified country(ies)), are desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said **ASSIGNEE** my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, 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 invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents 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 relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, 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**, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of **ASSIGNEE**, without further compensation or charge to said **ASSIGNEE**, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reissues, renewals and extensions thereof in the name of **ASSIGNEE**, 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 will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

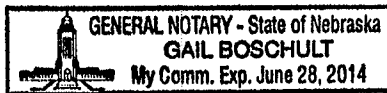
I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

Executed this 14 day of December, 2012
Kevin A. O'CONNELL**ACKNOWLEDGEMENT**State of NEBRASKA)
) s.s.:
County of DOUGLAS)

On this 14 day of December, 2012, personally appeared before me **Kevin A. O'Connell** to me known, and known by me to be the same person(s) 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)


Notary Public

Executed this _____ day of _____, 20_____.

Rangappa Narayana RAMACHANDRA**ACKNOWLEDGEMENT**State of PENNSYLVANIA)
) s.s.:
County of BERKS)

On this _____ day of _____, 2012, personally appeared before me **Rangappa Narayana Ramachandra** 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)

Notary Public

Executed this 14 day of Dec, 2012.

Terri Wasmoen

Terri L. WASMOEN

ACKNOWLEDGEMENT

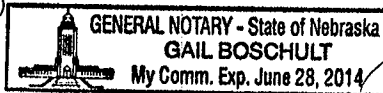
State of NEBRASKA)

) s.s.:

County of DOUGLAS)

On this 14 day of December, 2012, personally appeared before me Terri L. Wasmoen to me known, and known by me to be the same person(s) 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)



Gail Boschult
Notary Public

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Kevin A. O'Connell, located at Omaha, Nebraska, U.S.A.,
- (2) Rangappa Narayana Ramachandra, located at Sinking Spring, Pennsylvania, U.S.A.,
- (3) Terri L. Wasmoen located at Omaha, Nebraska, U.S.A.,

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said **ASSIGNEE** my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, 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 invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents 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 relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, 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**, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of **ASSIGNEE**, without further compensation or charge to said **ASSIGNEE**, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reissues, renewals and extensions thereof in the name of **ASSIGNEE**, 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 will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

PATENT

REEL: 030761 FRAME: 0644

Executed this _____ day of _____, 20____.

Kevin A. O'CONNELL

ACKNOWLEDGEMENT

State of NEBRASKA)
) s.s.:
County of DOUGLAS)

On this _____ day of _____, 2012, personally appeared before me Kevin A. O'Connell to me known, and known by me to be the same person(s) 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)

Notary Public

Executed this 14th day of December, 2012.

R. N. Ramachandra

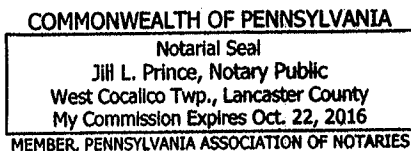
Rangappa Narayana RAMACHANDRA

ACKNOWLEDGEMENT

State of PENNSYLVANIA)
) s.s.:
County of BERKS)

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(Seal)



Jill L. Prince

Notary Public

Executed this ____ day of _____, 20____.

Terri L. WASMOEN

ACKNOWLEDGEMENT

State of NEBRASKA)
) s.s.:
County of DOUGLAS)

On this ____ day of _____, 2012, personally appeared before me Terri L. Wasmoen to me known, and known by me to be the same person(s) 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)

Notary Public