

## PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE:   | NEW ASSIGNMENT            |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                |
| CONVEYING PARTY DATA   |                           |
| Name   | Execution Date            |
| KEVIN O'CONNELL  | 07/10/2013                |
| ZHISONG QIAO   | 07/10/2013                |
| RECEIVING PARTY DATA   |                           |
| Name:  | INTERVET INC.             |
| Street Address:  | 556 MORRIS AVENUE         |
| City:  | SUMMIT                    |
| State/Country:   | NEW JERSEY                |
| Postal Code:   | 07065                     |
| PROPERTY NUMBERS Total: 1  |                           |
| Property Type  | Number                    |
| Application Number:  | 13967847                  |
| CORRESPONDENCE DATA  |                           |
| Fax Number:  | (732)594-4720             |
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| Email:   | us_efs@merck.com          |
| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>                             |                           |
| Correspondent Name:  | MERCK SHARP & DOHME CORP. |
| Address Line 1:  | 126 EAST LINCOLN AVENUE   |
| Address Line 2:  | RY86-2011A                |
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| ATTORNEY DOCKET NUMBER:  | 23296-US-NP               |
| NAME OF SUBMITTER:   | BARBARA MYSKOWSKI         |
| Signature:   | /Barbara Myskowski/       |
| Date:  | 02/17/2014                |
| Total Attachments: 2<br>source=23296_ASSIGNMENT_17FEB2014#page1.tif<br>source=23296_ASSIGNMENT_17FEB2014#page2.tif |                           |

**WORLDWIDE ASSIGNMENT**

WHEREAS, I/WE,

- (1) Kevin O'CONNELL, located at Omaha, NE,
- (2) Zhisong QIAO, located at Omaha, NE,

(hereinafter ASSIGNOR(S)), is/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:

**LIQUID STABLE VIRUS VACCINES**

and/or in the following application(s):

US Provisional Application No. 61/691,507 filed on August 21, 2012 ;and

US Provisional Application No. 61/777,164 filed on March 12, 2013 ;and

PCT International Application No. PCT \_\_\_\_\_ having a filing date of \_\_\_\_\_.

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, reexaminations, 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 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, reexaminations, 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 10 day of July, 2013

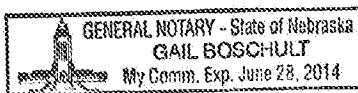
  
 Kevin O'CONNELL

ACKNOWLEDGEMENT

State of Nebraska )  
 ) s.s.:  
 County of Douglas )

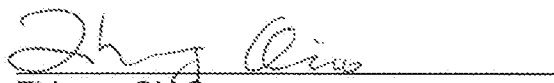
On this 10<sup>th</sup> day of July, 2013, personally appeared before me Kevin O'Connell to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)



  
 Notary Public

Executed this 10 day of JULY, 2013

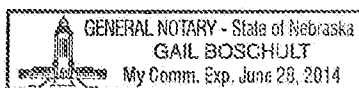
  
 Zhisong QIAO

ACKNOWLEDGEMENT

State of Nebraska )  
 ) s.s.:  
 County of Douglas )

On this 10<sup>th</sup> day of July, 2013, personally appeared before me Zhisong Qiao 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