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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Michael B. ROOF, Jeremy J. KROLL and Jeffrey P. KNITTEL

2. Name and address of receiving party(ies)

Name: Boehringer Ingelheim Vetmedica, Inc.

Internal Address: _____

Street Address: 2621 North Belt Highway

City: St. Joseph

State: MO

Country: USA Zip: 64506-2002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Execution Date(s) 9/1/2004 and 9/9/2004

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

4. Application or patent number(s):

A. Patent Application No.(s)

10/891,745

☐ This document is being filed together with a new application.

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Robert P. Raymond

Internal Address: Boehringer Ingelheim Corporation

Street Address: 900 Ridgebury Road
P. O. Box 368

City: Ridgefield

State: CT Zip: 06877-0368

Phone Number: (203) 798-9988

Fax Number: (203) 798-4408

Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

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a. Credit Card Last 4 Numbers _____
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Authorized User Name Susan K. Pocchiari Reg

9. Signature:

Susan K. Pocchiari

Signature

October 20, 2004

Date

Susan K. Pocchiari Reg #45,016

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

10

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Docket No. 10/052a

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PATENT
REEL: 015268 FRAME: 0296

Case No.: 10/052a

ASSIGNMENT

In consideration of one Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledge, I (We), the undersigned,

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Postal or Zip Code of mailing address:: 32934

hereby sell, assign and transfer to Boehringer Ingelheim Vetmedica, Inc., a corporation of the State of Delaware, having a place of business at 2621 North Belt Highway, St. Joseph, MO 64506-2002 its successors, assigns and legal representatives, our entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent which is entitled:

**LAWSONIA INTRACELLULARIS OF EUROPEAN ORIGIN AND VACCINES,
DIAGNOSTIC AGENTS AND METHODS OF USE THEREOF**

which


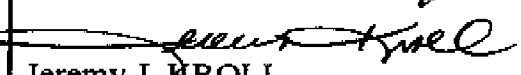
☐ was executed by me (us) on

☒ was filed on July 15, 2004, and accorded Serial No.: 10/891,745

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States on said improvements;

Agree said Assignee may apply for and receive Letters Patent for said improvements in its own name, and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements, execute all rightful oaths, assignments, powers of attorney and other papers, communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof, generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applicants for patents and all patents on said improvements in said Assignee, its successors, assigns and legal representative; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant mortgage license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

SIGNATURE OF APPLICANT	DATE
 Michael B. ROOF	9/1/2004
 Jeremy J. BROLL	9/1/04

Jeffrey P. KNITTEL	

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Case No.: 10/052a

ASSIGNMENT

In consideration of one Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledge, I (We), the undersigned,

Primary Citizenship Country:: US
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Primary Citizenship Country:: US
Name:: Jeremy
Middle Name:: J.
Family Name:: KROLL
City of Residence:: Urbandale
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Primary Citizenship Country:: US
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Family Name:: KNITTEL
City of Residence:: Melbourne
State or Province of Residence:: Florida
Country of Residence:: US
Street of mailing address:: 4400 Philodendron Court
City of mailing address:: Melbourne
State or Province of mailing address:: Florida
Country of mailing address:: US
Postal or Zip Code of mailing address:: 32934

hereby sell, assign and transfer to Boehringer Ingelheim Vetmedica, Inc., a corporation of the State of Delaware, having a place of business at 2621 North Belt Highway, St. Joseph, MO 64506-2002 its successors, assigns and legal representatives, our entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent which is entitled:

**LAWSONIA INTRACELLULARIS OF EUROPEAN ORIGIN AND VACCINES,
DIAGNOSTIC AGENTS AND METHODS OF USE THEREOF**

which

☐ was executed by me (us) on

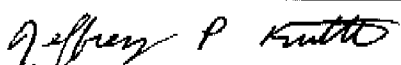
☒ was filed on July 15, 2004, and accorded Serial No.: 10/891,745

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States on said improvements;

Agree said Assignee may apply for and receive Letters Patent for said improvements in its own name, and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements, execute all rightful oaths, assignments, powers of attorney and other papers, communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof, generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applicants for patents and all patents on said improvements in said Assignee, its successors, assigns and legal representative; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant mortgage license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

SIGNATURE OF APPLICANT	DATE
Michael B. ROOF	
Jeremy J. KROLL	

 Jeffrey P. KNITTEL	Sept. 9, 2004

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