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1. Name of conveying party(ies)

Paul BRITTON
David CAVANAGH
Ian TARPEY

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

2. Name and address of receiving party(ies)

Name: Akzo Nobel N.V.

Internal Address: Patent Department

Street Address: Velperweg 76

City: 6824 BM Arnhem

State: _____

Country: Netherlands

Zip: _____

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) August 18, 2005 and September 2, 2005

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

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No. (s)

10/547,219

B. Patent No. (s)

Additional numbers attached? Yes No

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

Name: William M. Blackstone

Internal Address: Intervet Inc. Patent Department

Street Address: 29160 Intervet Lane

City: Millsboro

State: DE

Zip: 19966

Phone Number: 302-934-4317

Fax Number: 302-934-4305

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)

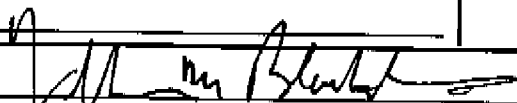
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b. Deposit Account Number 02-2334

Authorized User Name Diane Payne

9. Signature:


Signature

September 8, 2006
Date

William M. Blackstone, PTO Reg. No: 28,772
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents. 6

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Attorney Docket: 1-2003.001 US
Customer No: 31846

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PATENTS ONLY
PAGE 2

1. Name of conveying party(ies)

Paul BRITTON
David CAVANAGH
Ian TARPEY

2. Name and address of receiving party(ies) continued

Institute for Animal Health
Compton, Newbury
Berskshire RG20 7NN
United Kingdom

3. Nature of conveyance/Execution Date(s):

Execution Dates: August 18, 2005 and September 2, 2005
Assignment

4. Application or patent number(s):

10/547,219

2003.001 US

United States
Assignment from Inventor

In consideration of one dollar (\$ 1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Assignors:

BRITTON, Paul
Institute for Animal Health
Compton, Newbury
Berkshire RG20 7NN
United Kingdom

CAVANAGH, David
Institute for Animal Health
Compton, Newbury
Berkshire RG20 7NN
United Kingdom

TARPEY, Ian
12 The Quadrant
St. Ives
Cambridgeshire PE17 4PE
United Kingdom

hereby sell, assign and transfer to Assignees:

Akzo Nobel N.V. and Institute for Animal Health

its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to, and any and all improvements which are disclosed in

(a) Patent Number _____ Dated _____

(b) Application for Letters Patent Serial No. _____, filed _____

(c) Application for Letters Patent which has been executed by the undersigned concurrently herewith and is entitled:

"INFECTIOUS BRONCHITIS VIRUS WITH AN ALTERED SPIKE GENE"

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 and all other foreign countries 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 and all foreign countries on said improvements.

The Assignee may apply for and receive the Letters Patent in its own name. When requested by the Assignee or its successors, the undersigned will execute all other patent applications; proper oaths; assignments; powers of attorney, or other papers and communicate all facts known to it relating to the improvements and the history thereof; and generally do everything possible which the Assignee or its successors shall consider desirable for aiding in securing and maintaining proper patent protection for the improvements and for vesting title in the Assignee or its successors.

Assignors warrant that they have the full right to convey the rights and property described herein and no assignment, grant, mortgage or license or other agreement affecting such rights and property has been made to other by the undersigned.

Assignor

By _____
D. Cavanagh

By _____
P. Britton

By I. Tarpey
I. Tarpey

By _____

Before me this 18th day of August, 2005 personally appeared the above named individual(s) to me known to be the person(s) who (is) (are) described in and who executed the above instrument, and acknowledged to me that (he) (she) (they) executed the same of (his) (her) (their) own free will (on behalf of said firm or corporation) for the purposes therein set forth.

By [Signature]

Type name

Address 11 Victor Close
Sharnbrook
MK42 0PR
UK.

2003.001 US

United States Assignment from Inventor

In consideration of one dollar (\$ 1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Assignors:

BRITTON, Paul
Institute for Animal Health
Compton, Newbury
Berkshire RG20 7NN
United Kingdom

CAVANAGH, David
Institute for Animal Health
Compton, Newbury
Berkshire RG20 7NN
United Kingdom

TARPEY, Ian
12 The Quadrant
St. Ives
Cambridgeshire PE17 4PE
United Kingdom

hereby sell, assign and transfer to Assignees:

Akzo Nobel N.V. and Institute for Animal Health

its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to, and any and all improvements which are disclosed in

(a) Patent Number _____ Dated _____

(b) Application for Letters Patent Serial No. _____, filed _____

(c) Application for Letters Patent which has been executed by the undersigned concurrently herewith and is entitled:

"INFECTIOUS BRONCHITIS VIRUS WITH AN ALTERED SPIKE GENE"

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 and all other foreign countries 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 and all foreign countries on said improvements.

The Assignee may apply for and receive the Letters Patent in its own name. When requested by the Assignee or its successors, the undersigned will execute all other patent applications; proper oaths; assignments; powers of attorney, or other papers and communicate all facts known to it relating to the improvements and the history thereof; and generally do everything possible which the Assignee or its successors shall consider desirable for aiding in securing and maintaining proper patent protection for the improvements and for vesting title in the Assignee or its successors.

Assignors warrant that they have the full right to convey the rights and property described herein and no assignment, grant, mortgage or license or other agreement affecting such rights and property has been made to other by the undersigned.

Assignor _____

By _____

D. Cavanagh

By _____

P. Britton

By _____

I. Tarpey

By _____

Before me this 2 day of September, 2005 personally appeared the above named individual(s) to me known to be the person(s) who (is) (are) described in and who executed the above instrument, and acknowledged to me that (he) (she) (they) executed the same of (his) (her) (their) own free will (on behalf of said firm or corporation) for the purposes therein set forth.

By _____

Type name **GEOFF OLDHAM**

Address **INSTITUTE FOR ANIMAL HEALTH
COMPTON BERKSHIRE UK RG20 7NN**

PATENT