

FORM PTO-1595

1-31-92

Docket No.: HTS-0016

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08-15-2002

COMMERCE
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FINANCE SECTION

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To The Honorable Commissioner of Patents and Trademarks. Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies):
Kenneth W. Dobie and Erich Koller

2. Name and address of receiving party(ies):
Name: **ISIS Pharmaceuticals, Inc.**
Internal Address: **Carlsbad Research Center**
Street Address: **2292 Faraday Avenue**
City: **Carlsbad**
State: **California**
Zip: **92008**

Additional name(s) of conveying party(ies) attached?
() YES (XX) NO *8/13/02*

3. Nature of Conveyance:
(XX) Assignment () Merger
() Name Change () Security Agreement
() Other: _____
Execution date: **May 23, 2002**

Additional names (s) & address attached?
() YES (XX) NO

4. Application number(s) or patent number(s):

A. Patent Application No(s). **10/156,603** FILED **May 23, 2002** B. Patent No(s).

If this document is being filed together with a new application, the execution date of the application is:
Additional numbers attached? () YES (XX) NO

5. Name and address of party to whom correspondence concerning documents should be mailed:

6. Total number of applications and patents involved: **One (1)**

Licata & Tyrrell P.C.
66 E. Main Street
Marlton, New Jersey 08053

7. Total fee (37 CFR 3.41): \$40.00
() Enclosed
(XX) Authorized to be charged to deposit account.

8. Deposit Account number: **50-1619**
(Attach duplicate copy of this page if paying by deposit account.)

DO NOT USE THIS SPACE

9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Jane Massey Licata, Reg. No. 32,257
Name of Person Signing

Signature *Jane Massey Licata* August 8, 2002

Total number of pages comprising cover sheet, attachments, and document: **Five**

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

08/14/2002 LHMJELLER 00000100 501619 10156603
01 FC:581 40.00 CH

A S S I G N M E N T

WHEREAS, we Kenneth W. Dobie, residing at 703 Stratford Ct., #4, Del Mar, California 92014 and Erich Koller, residing at 2622 Lewis Lane, Carlsbad, California 92009 hereinafter referred to as the assignors, are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Case No. HTS-0016 entitled **Antisense Modulation of kinesin-like 1 Expression**; filed concurrently herewith; and

WHEREAS, **Isis Pharmaceuticals Inc.** hereinafter referred to as the assignee, of **2292 Faraday Ave, Carlsbad, California 92008** is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time a request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

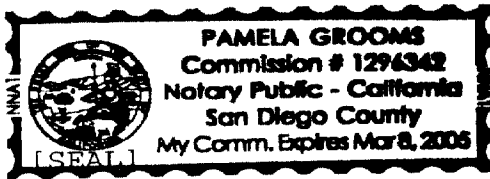
IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: 5/23/02

Kenneth W. Dobie
Kenneth W. Dobie

STATE OF California)
COUNTY OF San Diego) ss.

This 23rd day of May 2002, before me personally came the above-named Kenneth W. Dobie, who executed the foregoing Assignment in my presence, and who acknowledged to me that he/~~she~~ executed the same of his/~~her~~ own free will for the purposes set forth therein.



Pamela Grooms
Notary Public

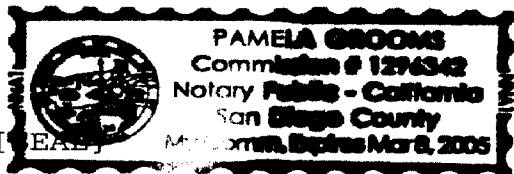
Dated: 5-23-02

Erich Koller
Erich Koller

STATE OF California)
COUNTY OF San Diego) SS.

This 23rd day of May 2002, before me personally came the above-named Erich Koller, who executed the foregoing Assignment in my presence, and who acknowledged to me that he ~~she~~ executed the same of his/~~her~~ own free will for the purposes set forth therein.

Pamela Grooms
Notary Public



*The above assignment covers application Serial No.
10/156,603, filed on May 23, 2002.

The above insertion made by me this 8th day of
August, 2002.

Jane Massey Licata
Jane Massey Licata, Reg. No. 32,257 or
Kathleen A. Tyrrell, Reg. No. 38,350
of Licata & Tyrrell P.C.