

10-29-1998

FORM PTO-1595

1-31-92

Docket No.: ISPH-0317



100862855

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

## RECORDATION FORM COVER SHEET PATENTS ONLY

ID NO:

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

1. Name of conveying party(ies):

Stanley T. Crooke, Christopher K.  
Mirabelli, David J. Ecker and Lex M.  
Cowser

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

Additional names (s) &amp; address attached?

( ) YES (XX) NO

3. Nature of Conveyance:

(XX) Assignment ( ) Merger

( ) Name Change ( ) Security Agreement

( ) Other: \_\_\_\_\_

Execution date: October 2, 1998

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

A. Patent Application No(s). 09/130,426 FILED August 6, 1998

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:Jane Massey Licata, Esq.  
Law Offices of Jane Massey Licata  
66 E. Main Street  
Marlton, New Jersey 08053

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

7. Total fee (37 CFR 3.41): \$

( ) Enclosed

(XX) Authorized to be charged to deposit account.

8. Deposit Account number: 12-1086

(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

October 12, 1998

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

10/26/1998 SBURNS 00000049 121086 09130426

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PATENT  
REEL: 9531 FRAME: 0915

A S S I G N M E N T

WHEREAS, we **Stanley T. Crooke, Christopher K. Mirabelli, David J. Ecker and Lex M. Cowsert**, hereinafter referred to as the assignors, residing respectively at **3211 Piragua Street, Carlsbad, CA 92009; 6 Pine Street, Dover, MA 02030; 1041 Saxony Road, Encinitas, CA 92024; and 3008 Newshire Street, Carlsbad, CA 92008** are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Serial No. **09/130,426**, filed **August 6, 1998**, entitled **Antisense Oligonucleotide Inhibition of Papillomavirus**; and

WHEREAS, **Isis Pharmaceuticals, Inc.** hereinafter referred to as the assignee, of **Carlsbad, California**, a corporation of **Delaware**, 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:

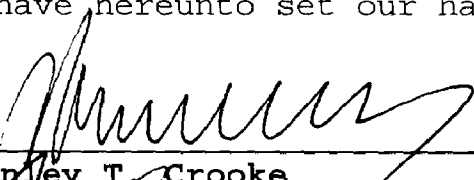
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents 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 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.

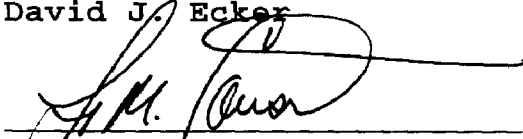
AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title 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.

  
\_\_\_\_\_  
Stanley T. Crooke (L.S.)

  
\_\_\_\_\_  
Christopher K. Mirabelli (L.S.)

  
\_\_\_\_\_  
David J. Ecker (L.S.)

  
\_\_\_\_\_  
Lex Cowser (L.S.)

[WHERE ALL INVENTORS SIGN BEFORE THE SAME NOTARY:]

\_\_\_\_\_  
COUNTY OF \_\_\_\_\_: SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally came the above named \_\_\_\_\_

\_\_\_\_\_ to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public

[WHERE INVENTORS SIGN BEFORE SEPARATE NOTARIES:]

Commonwealth of Massachusetts :

SS

COUNTY OF Middlesex :

On this 28 day of September, 1998, before me personally came the above named Christopher Muzbelli to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Edna Estabrad  
\_\_\_\_\_  
Notary Public

CALIFORNIA :

SS

COUNTY OF SAN DIEGO :

On this 1 day of October, 1998, before me personally came the above named Ley Coorsert to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



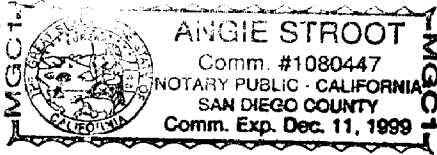
Angie Stroot  
\_\_\_\_\_  
Notary Public

CALIFORNIA :

SS

COUNTY OF SAN DIEGO :

On this 2<sup>ND</sup> day of October, 1998, before me personally came the above named STANLEY T. CROOKE to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Angie Strodt  
Notary Public

CALIFORNIA :

SS

COUNTY OF SAN DIEGO :

On this 2<sup>nd</sup> day of OCTOBER, 1998, before me personally came the above named DAVID J. ECKER to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Carol A. Collins  
Notary Public