

FORM PTO-1595

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03-06-2002

S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Packet No.: ISPH-0612



102004128

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):
**C. Frank Bennett and Christopher
Mirabelli**Additional name(s) of conveying party(ies)
attached?☐ YES ☒ NO

3. Nature of Conveyance:

☒ Assignment ☐ Merger☐ Name Change ☐ Security Agreement☐ Other: _____Execution date: **January 25, 2002**

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 names (s) & address attached?

☐ YES ☒ NO

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

A. Patent Application No(s). **09/982,262** **FILED October 18, 2001**

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 ☒ NO5. Name and address of party to whom
correspondence concerning documents
should be mailed:**Licata & Tyrrell P.C.**
66 E. Main Street
Marlton, New Jersey 080536. Total number of applications and patents involved: **One (1)**

7. Total fee (37 CFR 3.41): \$40.00

☐ Enclosed☒ 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.**Kathleen A. Tyrrell, Reg. No. 38,350**

Name of Person Signing

Signature

January 30, 2002

FEB 14 2002

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

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PATENT
REEL: 012626 FRAME: 0075

A S S I G N M E N T

WHEREAS, We, C. Frank Bennett, of Carlsbad, State of California and Christopher Mirabelli, of Dover, State of Massachusetts, have invented a certain invention entitled Oligonucleotide Modulation of Cell Adhesion, for which we have made application for Letters Patent of the United States, said application having been filed October 18, 2001 and assigned Application No. 09/982,262; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, 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,

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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

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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.

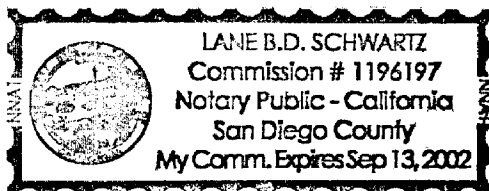
DATED: 1-25-02, 20012

C. Frank Bennett
C. Frank Bennett

State of California)
) ss.
County of San Diego)

On this 25th day of January, 20012, before me, the undersigned, a Notary Public for the state, personally appeared C. Frank Bennett, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.



Lane B.D. Schwartz
Signature of Notary

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DATED: JAN 11, 2007

Christopher Mirabelli

State of Massachusetts)
)
County of Suffolk) SS.

On this 11 day of Jan, 2001,² before me, the undersigned, a Notary Public for the state, personally appeared Christopher Mirabelli, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Antoinette M. Shurtz
Signature of Notary