

05-13-2002

ISIS-4954

RE



102086366

To The Honorable Commissioner of Patents and

original documents or copy thereof.

## 1. Name of conveying party(ies):

C. Frank Bennett	4/16/02
First Assignor	Date of Execution
Nicholas M. Dean	4/16/02
Second Assignor	Date of Execution
Jon T. Holmlund	4/12/02
Third Assignor	Date of Execution
F. Andrew Dorr	4/16/02
Fourth Assignor	Date of Execution
Fifth Assignor	Date of Execution
Sixth Assignor	Date of Execution

Additional name(s) of conveying party(ies) attached? ( ) YES (X) NO

## 2. Name and address of receiving party(ies):

Name: ISIS Pharmaceuticals, Inc.

Street Address: 2292 Faraday Avenue

City: Carlsbad

State: California

ZIP 92008

Additional name(s) &amp; address attached? ( ) YES (X) NO

## 3. Nature of Conveyance (check only one):

(X) New Assignment ( ) Merger  
 ( ) License Agreement ( ) Security Agreement  
 ( ) Change of Name ( ) Other:  
 ( ) Cross-reference of Assignment filed in United States  
 Application No. / / , recorded on at  
 Reel No. and Frame No.

## 4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

Application Nos.:

Patent Nos.:

Date application was signed by the first  
named executing inventor

10/025,139

(Fill-in this date only if assignment is  
filed together with a new application)5. Name and address of party to whom correspondence  
concerning documents should be mailed:

Emma R. Dailey  
 WOODCOCK WASHBURN LLP  
 One Liberty Place - 46th Floor  
 Philadelphia, Pennsylvania 19103-7301  
 215-568-3100

## 6. Total number of applications and patents involved: 1

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

(X) Enclosed

( ) Authorized to be charged to Deposit Account  
Number 23-30508. Please charge any deficiency or credit any  
overpayment to Deposit Account Number 23-3050

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.*

Emma R. Dailey

Name of Person Signing/Reg. No.

Signature

April 24, 2002

Date

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 7

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
 Box Assignments  
 Washington, D.C. 20231

05/10/2002 TDI A21 00000168 10025139

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40.00 OP

PATENT  
 REEL: 012870 FRAME: 0510

## A S S I G N M E N T

WHEREAS, we, **C. Frank Bennett of Carlsbad, California; Nicholas M. Dean of Olivenhain, California; Jon T. Holmlund of Carlsbad, California; and F. Andrew Dorr of Solana Beach, California**, have invented a certain invention entitled **OLIGONUCLEOTIDE INHIBITION OF PROTEIN KINASE C**, for which we have made an application for Letters Patent of the United States, said application having been filed **December 18, 2001** and assigned Application No. **10/025,139**; and

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

ASSIGNMENT - Page 2 of 6

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

Dated: April 14, 2002

C. Frank Bennett  
C. FRANK BENNETT

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

On this 16<sup>th</sup> day of April, 2002, 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/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ 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.



Kim M. Happel  
Signature of Notary

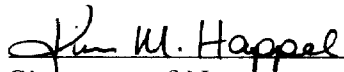
ASSIGNMENT - Page 3 of 6

Dated: 4 / 16, 2002  
\_\_\_\_\_  
NICHOLAS M. DEAN

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

On this 16<sup>th</sup> day of April, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **Nicholas M. Dean**, 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/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ 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.

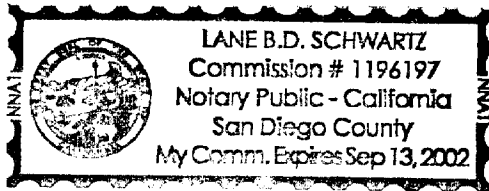
  
\_\_\_\_\_  
Signature of Notary

ASSIGNMENT - Page 4 of 6

Dated: 12 APRIL, 2002Jon T. Holmlund  
JON T. HOLMLUNDState of California )  
 )  
County of San Diego ) ss.

On this 12th day of April, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **Jon T. Holmlund**, 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/she executed the same in his/her authorized capacity, and that by his/her 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.

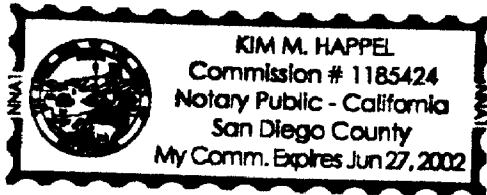
Lane B.D. Schwartz  
Signature of Notary

ASSIGNMENT - Page 5 of 6

Dated: April 16, 2002F. Andrew Dorr  
F. ANDREW DORRState of California )  
County of San Diego ) ss.

On this 16<sup>th</sup> day of April, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **F. Andrew Dorr**, 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/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ 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.

Kim M. Happel  
Signature of Notary

ASSIGNMENT - Page 6 of 6