

FORM PTO-1595

08-16-2001

U.S. DEPARTMENT OF COMMERCE

1-31-92

Patent and Trademark Office

Docket No.: RTSP-0117



RECORD A

101813146

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): *07/27/01*
Brett P. Monia 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 NO

Additional names (s) & address attached?

 YES NO

3. Nature of Conveyance:

 Assignment Merger Name Change Security Agreement Other: _____Execution date: **May 24, 2001**

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

A. Patent Application No(s). **09/856,074** FILED **May 17, 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 08053**6. 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.)

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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 *Kathleen A. Tyrrell***July 27, 2001**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****PATENT****REEL: 012062 FRAME: 0264**

A S S I G N M E N T

WHEREAS, We, Brett P. Monia, of La Costa, State of California and Lex M. Cowser, of San Mateo, State of California, have invented a certain invention entitled Antisense Modulation of Inhibitor-Kappa B Kinase-Alpha Expression, for which we have made application for Letters Patent of the United States identified as Attorney Docket No. RTSP-0117; 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, to file in our names applications for Letters Patent in all

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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

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