

06-28-2002



DOCKET NO.:PTS

102138135

Express Mail" Label No.: EL263653738US

Date of Deposit: June 14, 2002

U.S. PTO

10/172911

06/17/02

FORM PTO-1595 1-31-92

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeRECORDATION FORM COVER SHEET
PATENTS ONLY

To The Honorable Commissioner of Patents and Trademarks. Please record the attached documents or copy thereof.

1. Name of conveying party(ies):
Lex M. Cowser and Kenneth W. DobieAdditional name(s) of conveying party(ies)
attached? () YES (X) NO3. Nature of Conveyance:
(X) Assignment () Merger
() Security Agreement
() Change of Name
() Other:

Execution Date: June 6, 2002

2. Name and address of receiving party(ies):
Name: Isis Pharmaceuticals Inc.
Internal Address:Street Address: 2292 Faraday Ave
City Carlsbad

State California Zip 92008

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

4. Application number(s) or patent number (s): N/A

If this document is being filed together with a new application, the execution date of the application is: June 6, 2002

A. Patent Application No.(s) Not yet assigned

B. Patent No.(s) N/A

Additional numbers attached? () YES (X) NO

5. Name and address of party to whom
correspondence concerning documents should be
mailed:Name: Jane Massey Licata or Kathleen A. Tyrrell
Address: Licata & Tyrell, P.C.
66 East Main Street
Marlton NJ 080536. Total number of applications and patents
involved: 1

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

() Enclosed

(X) Authorized to be charged to deposit account

8. Deposit account number: 500252

(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.

Donna T. Ward / 48,271

Name of Person Signing/Reg.No.

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

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

Commissioner of Patents and Trademarks

Box Assignments

Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to
be recorded including time for reviewing the document and gathering the data needed, and completing and
reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and
Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of
Management and Budget, Paperwork Reduction Project. (0651-0011).

06/27/2002 6TOM11 00000175 500252 10172911

01 FC:581

40.00 CH

PATENT
REEL: 013023 FRAME: 0264

A S S I G N M E N T

WHEREAS, we Lex M. Cowsert, residing at 1299 Parrott Drive, San Mateo, California 94402 and Kenneth W. Dobie, residing at 703 Stratford Ct., #4, Del Mar, California 92014 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. PTS-0016 entitled **Antisense Modulation of PTPN12 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:

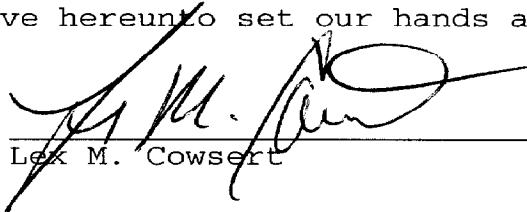
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents 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: 6/6/02

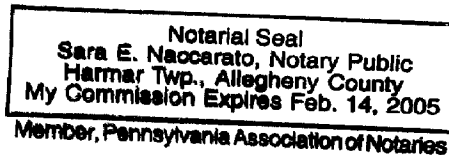

Lex M. Cowser

STATE OF Pennsylvania)
COUNTY OF Allegheny) ss.

This 6 day of June, 2002, before me personally came the above-named Lex M. Cowser, 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.


Notary Public

[SEAL]



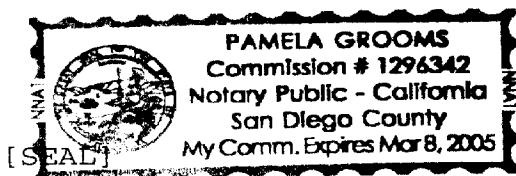
Dated: 5/30/02

Kenneth W. Dobie
Kenneth W. Dobie

STATE OF California)
COUNTY OF San Diego)

ss.

This 30th 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