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FORM PTO-1595
1-31-92

RECORDA

08-09-1999

DEPARTMENT OF COMMERCE
Patent and Trademark Office

To The Honorable Commissioner of Patents and Trademarks
thereof.



original documents or copy

101112238

1. Name of conveying party(ies):
Phillip Dan Cook

2. Name and address of receiving party(ies):
Name: ISIS Pharmaceuticals, Inc.

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

Street Address: 2292 Faraday Avenue

3. Nature of Conveyance:
() Assignment () Merger
() Security Agreement
() Change of Name
(X) Other: **Cross-referencing of Assignment document
from prior case S.N. 08/635,009 filed 4/19/96, recorded
at Reel /Frame**
Execution Date(s): July 22, 1998

City: Carlsbad
State: California ZIP 92008
Additional name(s) & address attached? () YES (X) NO

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)
09/208,533 filed 12/9/98

B. Patent No.(s)

Additional numbers attached? () YES (X) NO

5. Name and address of party to whom correspondence
concerning documents should be mailed:
Name: Michael P. Straher, Esq.
Internal Address: WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
Philadelphia, Pennsylvania 19103-7301

Street Address: WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
1650 Market Street
Philadelphia, Pennsylvania 19103-7301

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

7. Total fee (37 CFR 3.41):.....\$40.00
(X) Enclosed
() Authorized to be charged to Deposit Account
Number 23-3050

8. 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.

Michael P. Straher/38,325
Name of Person Signing/Reg. No.

Signature

August 2, 1999
Date

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

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

08/05/1999 NTHAI1 00000188 09208533
01 FC:581 40.00 DP

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

DOCKET NO.: ISIS-2260

ASSIGNMENT

WHEREAS, I **Phillip Dan Cook**, herein after referred to as the assignor, residing at **1155 La Casa, Lake San Marcos, California 92069**, am the inventor of certain inventions or improvements for which I have made application for Letters Patent of the United States, identified as Serial No. **08/635,009**, filed **April 19, 1996**, entitled **OLIGONUCLEOTIDES HAVING CHIRAL PHOSPHORUS LINKAGES**; and

WHEREAS, **ISIS Pharmaceuticals, Inc.**, hereinafter referred to as the assignee, of **2292 Faraday Avenue, Carlsbad, California 92008**, 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 me in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said assignor, 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 re-issue or re-issues or extension or extensions of said Letters Patent, and assign to and authorize said assignee to file in my name 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 me had this assignment, sale and transfer not been made.

AND I hereby covenant that I have full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I 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 I agree 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.

**PATENT
Sole Inventor**

AND I 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 of 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, I have hereunto set my hand and seal.



PHILLIP DAN COOK (L.S.)

PATENT
Sole Inventor

CALIFORNIA :

: SS

COUNTY OF SAN DIEGO :

On this 22 day of July, 1998, before me personally came the above named Phillip Dan Cook, 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