

03-24-2000

FORM PTO-1595

1-31-92

Docket No.: ISPH-0245



101295877

DEPARTMENT OF COMMERCE

Patent and Trademark Office

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):

Kaketsuken

Additional name(s) of conveying party(ies) attached?

() YES (XX) NO

3. Nature of Conveyance:

(XX) Assignment () Merger

() Name Change () Security Agreement

() Other: _____

Execution date: **February 1, 2000**

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 (XX) NO

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

A. Patent Application No(s). **08/988,321****FILED December 10, 1997**

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 (XX) NO

5. Name and address of party to whom correspondence concerning documents should be mailed:

Jane Massey Licata, Esq.**Law Offices of Jane Massey Licata****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

(XX) Authorized to be charged to deposit account.

8. Deposit Account number: **12-1086**

(Attach duplicate copy of this page if paying by deposit account.)

03/24/2000 DWGUYEN 00000247 121086 08988321

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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.

Jane Massey Licata, Reg. No. 32,257

Name of Person Signing

Signature Jane Massey Licata

February 9, 2000

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: 010621 FRAME: 0918

A S S I G N M E N T

WHEREAS, **Kaketsuken**, hereinafter referred to as the assignor, having a place of business at **Kumamoto, Japan**, is the assignee of certain rights of certain inventions or improvements for an application for Letters Patent of the United States, identified as Serial No. **08/988,321**, filed **December 10, 1997**, entitled **Compositions and Methods for Treatment of Hepatitis C Virus-Associated Disease** ; and assigned to **Kaketsuken** in an Assignment recorded **June 15, 1998** at Reel **9251**, Frame **0970**; and

WHEREAS, **Isis Pharmaceuticals, Inc.**, hereinafter referred to as the assignee, of **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 Patents which may be granted on or as a result thereof in any and all countries; and

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, 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 assignor's 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 assignor had this assignment, sale and transfer not been made.

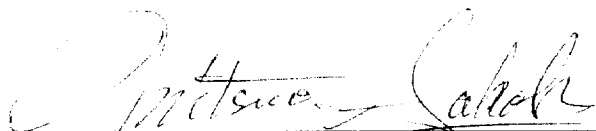
AND hereby covenants that assignor has full right to convey the entire interest herein assigned, and has not executed and will not execute any agreement in conflict herewith, and further covenants and agrees that each time request is made and without undue delay, execute and deliver all such papers as 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 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 hereby authorizes and requests 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, assignor has hereunto set its seal.

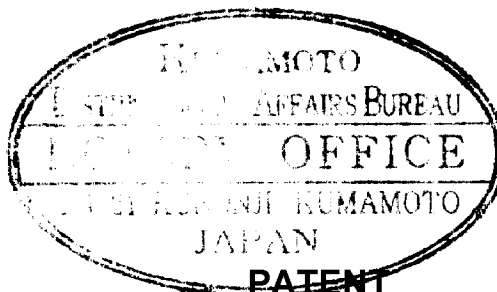
 (L.S.)
Authorized Official of Kaketsuken
Title: Mitsuo Sakoh, D.M.Sc.
Director General

: SS
_____:

On this _____ day of _____, 2000, before me personally came the above named _____ 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.

Notary Public

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REEL: 010621 FRAME: 0920

平成 年登簿第 19 号

囑託人財団法人化学及血清療法研究所
理事酒匂光郎の代理人衛藤辰男は
本公証人の面前で、前記囑託人が本証
書に署名したことを自認する旨陳述した。

以上認証する

平成12年 2 月 1 日本職役場において

熊本市九品寺2丁目1番24号

熊本地方法務局所属

公証人

黒木 光郎

公 証 人 役 場

Registered No. 19 of 2000

NOTARIAL CERTIFICATE

This is to certify that Tatsuo Etou
an agent of Mitsuo Sakoh
Representative Director of THE CHEMO-SERO-THERAPEUTIC
RESEARCH INSTITUTE has stated in my presence
that the said Mitsuo Sakoh
has acknowledged himself to have signed the
attached document on this 1 day of February ,
2000.

NORIO KUROKI

NOTARY

Attached to the KUMAMOTO DISTRICT LEGAL AFFAIRS
BUREAU

KUMAMOTO NOTARY OFFICE

1-24, Kuhonji 2-chome, Kumamoto-shi, Kumamoto-ken,
862-0976, Japan

