

FORM PTO-1584
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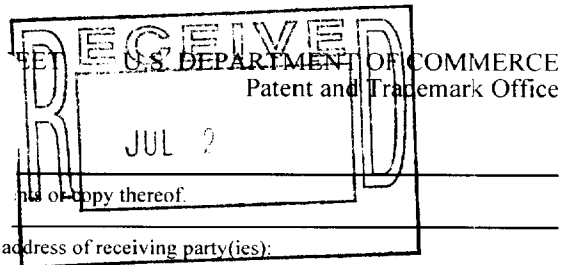
Atty Ref/Docket No.: 740.004US2

To the Honorable Commissioner of Patents and Trademarks

07-06-1999



101084264



1. Name of conveying party(ies):

C. Cheng Kao and Robert W. Siegel

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

Name: Advanced Research and Technology Institute, Inc.

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

3. Nature of conveyance:

[X] Assignment

[] Merger

[] Security Agreement

[] Change of Name

[] Other

Street Address: Indiana University Research Park
501 North Morton Street
Suite 111

City: Bloomington State: IN ZIP: 47404

Additional name(s) & address(es) attached? [] Yes [X] No

Execution Date: June 11, 1999 and June 15, 1999

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)

B. Patent No.(s)

Serial No. 09/276,192, filed March 25, 1999

Additional numbers attached? [] Yes [X] No

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

Name: Janet E. Embretson

Address: Schwegman, Lundberg, Woessner & Kluth, P.A.
P.O. Box 2938
Minneapolis, MN 55402

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

8. Please charge any additional fees or credit any overpayments to our
Deposit account number: 19-0743

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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.

Janet E. Embretson/Reg. No. 39,665

Name of Person Signing

Signature

Date

Total number of pages including cover sheet: 4

OMB No. 0651-0011 (exp. 4/94)

07/06/1999 DNGUYEN 00000001 09276192

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PATENT
REEL: 010063 FRAME: 0163

ASSIGNMENT

WHEREAS, WE, C. Cheng Kao, residing at Department of Chemistry, c/o Tinoco's lab, University of California at Berkeley, Berkeley, CA 94720-1460, and Robert W. Siegel, residing at C & M Biology, Department of Chemistry, Life Sciences Division, Mail Stop M888, Los Alamos National Lab, Los Alamos, NM 87545, made certain new and useful inventions and improvements for which We filed an application for Letters Patent of the United States on March 25, 1999, which application was assigned U.S. patent application serial number 09/276,192, and is entitled USE OF NUCLEIC ACID MOLECULES AS ANTIVIRAL AGENTS.

AND WHEREAS, Advanced Research and Technology Institute, Inc., a corporation organized and existing under and by virtue of the laws of the State of Indiana, and having an office and place of business at Indiana University Research Park, 501 North Morton Street, Suite 111, Bloomington, IN 47404, (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me/us and that full right to convey the same as herein expressed is possessed by us.

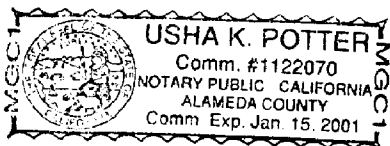
IN TESTIMONY WHEREOF, I have hereunto set my hand this 15th day of June, 1999.

C. Cheng Kao
C. Cheng Kao

STATE OF California)
)ss.
COUNTY OF Alameda)

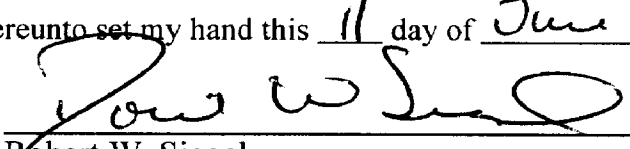
On this 15th day of June, 1999 before me personally appeared C. Cheng Kao ~~to me~~
~~known and known to me~~ to be the person described in and who executed the foregoing instrument, and
he/~~she~~ duly acknowledged to me that he/~~she~~ executed the same for the uses and purposes therein set
forth.

[SEAL]



[Signature]
Notary Public

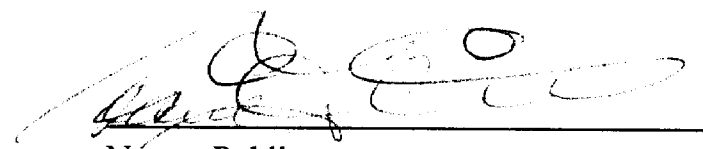
IN TESTIMONY WHEREOF, I have hereunto set my hand this 11 day of June, 1999.


Robert W. Siegel

STATE OF New Mexico
COUNTY OF Los Alamos)ss.

On this 11th day of June, 1999 before me personally appeared Robert W. Siegel to
me known and known to me to be the person described in and who executed the foregoing instrument,
and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein
set forth.

[SEAL]


Notary Public

My commission expires 11-13-2000