

12-06-2000

FORM PTO-1595
(Rev. 6/93)



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PATENTS OFFICE

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Patent and Trademark Office

SHEET

Attorney Docket No. 1340-1-021CIP

To the Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hiromitsu Nakauchi 11-14-00

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name

Other: _____

Execution Date: September 26, 2000

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

Name: St. Jude Children's Research Hospital

Address: 332 North Lauderdale Street

Memphis, TN 38105-2794

Additional name(s) & address(es) attached? Yes 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)

09/584,586

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: David A. Jackson

Address: KLAUBER & JACKSON

411 Hackensack Avenue, 4th Floor

Hackensack, New Jersey 07601

6. Total number of applications and patents involved: 1 _____

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

Enclosed

Authorized to be charged to deposit account, if necessary - for overages or underpayments only

8. Deposit account number:

11-1153

(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.

Michael D. Davis, Reg. No. 39,161
Name of Person Signing

Michael D. Davis
Signature

11/10/2000
Date

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

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

Assistant Commissioner For Patents
Box Assignments
Washington, D.C. 20231

12/05/2000 MTHAI1 00000271 09504586

01 FC:581

40.00 DP

PATENT
REEL: 011296 FRAME: 0600

ASSIGNMENT

WHEREAS, WE,

Brian Sorrentino, a citizen of the United States, residing at
6590 Quail Point Circle North
Memphis, TN 38103; and

Kevin Bunting, a citizen of the United States, residing at
99 North Main #1112
Memphis, TN 38120;

John Schuetz, a citizen of the United States, residing at
1442 Carr Avenue
Memphis, TN 38105; and

Hiromitsu Nakauchi, a citizen of ^{Japan} ~~the United States~~, residing at
~~Department of Immunology~~ 429-3 Oi, Kukizaki-machi
~~Inst. of Basic Med. Sciences~~ Inashiki-gun, Ibaraki,
~~University of Tsukuba~~ JAPAN 300-1243
~~Tsukuba, Ibaraki 305~~
~~JAPAN~~ H.N.

have invented certain new and useful improvements in

RELATIONSHIP OF ABC TRANSPORT PROTEINS WITH HEMATOPOIETIC
STEM CELLS AND METHODS OF USE THEREOF

for which we have filed an Application for Letters Patent in the United States on May 31,
2000, and was accorded U.S. Serial No. 09/584,586; and

WHEREAS, ST. JUDE CHILDREN'S RESEARCH HOSPITAL,
an education corporation organized and existing under
the laws of the State of Tennessee,
with office at 332 North Lauderdale Street, Memphis, TN 38105-2794,

ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the
said improvements and the said application;

NOW, THEREFORE, for other good and valuable consideration, the receipt of which
is hereby acknowledged, we the said

Brian Sorrentino; Kevin Bunting; John Schuetz; and Hiromitsu Nakauchi

have sold, assigned, transferred and set over, and by these presents do hereby sell, assign,
transfer and set over, to the said

ST. JUDE CHILDREN'S RESEARCH HOSPITAL,



its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the right to claim priority under the terms of any appropriate International Convention based upon said application for Letters Patent of the United States, and all Letters Patent which may be granted from said improvements in any country or countries foreign to the United States and extensions, renewals and reissues thereof; 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 is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said

ST. JUDE CHILDREN'S RESEARCH HOSPITAL,

its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the interest herein assigned in the manner hereinabove set forth, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said

ST. JUDE CHILDREN'S RESEARCH HOSPITAL,

its successors, legal representatives and assigns, any fact known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisions, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said

ST. JUDE CHILDREN'S RESEARCH HOSPITAL,

its successors, legal representatives and assigns, to obtain and enforce proper Patent Protection for said improvements in the United States.

IN TESTIMONY WHEREOF, we hereunto set our hand and seal the day and year set opposite our signatures.



Date _____, 2000 _____ L.S.
Brian Sorrentino

State of :
: ss.
County of :

Before me this day of 2000, personally appeared Brian Sorrentino, to me personally known to be the person who is described in and who executed the above instrument, and acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

NOTARY PUBLIC

(Affix Seal Here)

Date _____, 2000 _____ L.S.
Kevin Bunting

State of :
: ss.
County of :

Before me this day of 2000, personally appeared Kevin Bunting, to me personally known to be the person who is described in and who executed the above instrument, and acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

NOTARY PUBLIC

(Affix Seal Here)



Date _____, 2000

John Schuetz L.S.

State of :
: ss.
County of :

Before me this _____ day of _____ 2000, personally appeared John Schuetz, to me personally known to be the person who is described in and who executed the above instrument, and acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

NOTARY PUBLIC

(Affix Seal Here)

Date Sept. 26, 2000

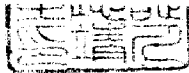
Hiromitsu Nakauchi L.S.
Hiromitsu Nakauchi

State of :
: ss.
County of :

Before me this 26th day of Sep. 2000, personally appeared Hiromitsu Nakauchi, to me personally known to be the person who is described in and who executed the above instrument, and acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Yasuo Azechi 
NOTARY PUBLIC

(Affix Seal Here)



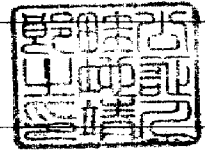
Registered No. 340

NOTARIAL CERTIFICATE

This is to certify that Hiromitsu Nakauchi has
affixed his signature in my very presence to the
attached document.

Dated this 26th day of September, 2000.

Yasuo Azechi
YASUO AZECHI



Notary

1-7-21 Fuzisaki Tsuchiura-shi

Ibaraki-ken Japan

Mito Legal Affairs Bureau

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Registered No. 340

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This is to certify that Hiromitsu Nakauchi has
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Dated this 26th day of September, 2000.



Yasuo Azechi

YASUO AZECHI

Notary

1-7-21 Fuzisaki Tsuchiura-shi

Ibaraki-ken Japan

Mito Legal Affairs Bureau

公 証 人 役 場

平 1 2 年 第 340 号

認 証

囑託人中内啓光は、本職の面前で添付書面に

署名した

以上のとおり証明する

平成 1 2 年 9 月 2 6 日 本 職 役 場 に お い て

茨 城 県 土 浦 市 富 士 崎 1 丁 目 7 番 21 号

水 戸 地 方 法 務 局 所 属



証 人 野 池 靖 郎

公 証 人

公 証 人 役 場