

03-08-2002

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

Mico 2/26/02

1. Name of conveying party(ies):
Alan Engelman
Wolfgang Hofmann
Joseph G. Sodroski
Richard Lu

2. Name and address of receiving party(ies)
Name: Dana-Farber Cancer Institute, Inc.
Internal Address: _____

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Street Address: 44 Binney Street
City: Boston State: MA Zip: 02115

Execution Date: 12/26/01, 1/2/02 and 1/25/02

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)
09/990,879

B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Ronald I. Eisenstein
Internal Address: Nixon Peabody LLP
Street Address: 101 Federal Street
City: Boston State: MA Zip: 02110

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

8. Deposit account number:
50-8050
(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.
Ronald I. Eisenstein, Reg. No. 30,628
Name of Person Signing
Ronald I. Eisenstein Signature
2/11/02 Date

Total number of pages including cover sheet, attachments, and documents 7

03/08/2002 LINDLELL 00000000 09990079

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

01 FC:581

40.00 OP

PATENT
REEL: 012637 FRAME: 0555

ASSIGNMENT

WHEREAS, We, Alan Engelman, a United States citizen, residing at 20 Stearns Road, #64, Brookline, MA 02446, Wolfgang Hofmann, a German citizen, residing at Goerdelestrasse 105, 53123 Bonn Germany, Joseph G. Sodroski, a United States citizen, residing at 10 Ashland Street, Medford, MA 02155, and Richard Lu, a United States citizen, residing at 50 Spring Park Avenue, Jamaica Plain, MA 02130, have invented certain new and useful improvements in EPISOMALLY REPLICATING LENTIVIRAL VECTORS for which we have executed an application for Letters Patent in the United States, filed as U.S. Serial Number 09/990,879 on November 21, 2001;

AND WHEREAS, Dana-Farber Cancer Institute, Inc., a Massachusetts corporation, with its principal place of business at 44 Binney Street, Boston, MA 02115, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:


NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, the entire right, title and interest throughout the world 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 rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents 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 all Letters Patent for said improvements to the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 101 Federal Street, Boston, Massachusetts 02110, U.S.A. the power to insert on this Assignment any further

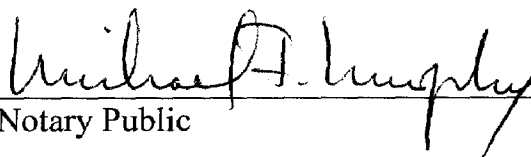
identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark, Office for recordation of this document.

IN TESTIMONY WHEREOF, I, Alan Engelman, hereunto set my hand and seal this 2 day of January, 2002.


Alan Engelman

STATE OF Massachusetts
COUNTY OF Suffolk SS:

This 2 day of January, 2002, before me personally came the above-named Alan Engelman, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.


Notary Public

MICHAEL F MURPHY
MY COMMISSION EXPIRES
SEPT. 13, 2007

IN TESTIMONY WHEREOF, I, Wolfgang Hofmann, hereunto set my hand and seal this _____ day of _____, 20__.

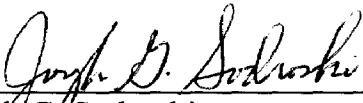
Wolfgang Hofmann

STATE OF _____
COUNTY OF _____ SS:

This _____ day of _____, 20__, before me personally came the above-named _____, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public

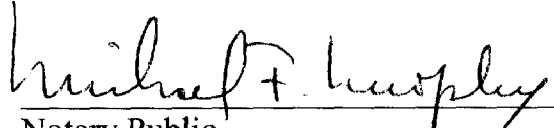
IN TESTIMONY WHEREOF, I, Joseph G. Sodroski, hereunto set my hand and seal this
26th day of December, 2001.



Joseph G. Sodroski

STATE OF Massachusetts
COUNTY OF Suffolk SS:

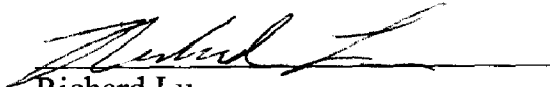
This 26th day of December, 2001, before me personally came the above-named Joseph G. Sodroski, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.



Notary Public

MICHAEL F MURPHY
MY COMMISSION EXPIRES
SEPT. 13, 2007

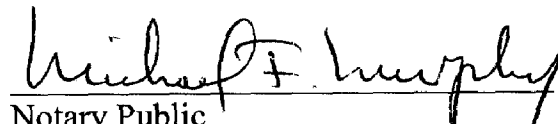
IN TESTIMONY WHEREOF, I, Richard Lu, hereunto set my hand and seal this
2 day of January, 2002.



Richard Lu

STATE OF Massachusetts
COUNTY OF Suffolk SS:

This 2 day of January, 2002, before me personally came the above-named Richard Lu, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.



Notary Public

MICHAEL F MURPHY
MY COMMISSION EXPIRES
SEPT. 13, 2007

ASSIGNMENT

WHEREAS, We, Alan Engelman, a United States citizen, residing at 20 Stearns Road, #64, Brookline, MA 02446, Wolfgang Hofmann, a German citizen, residing at Goerdelestrasse 105, 53123 Bonn Germany, Joseph G. Sodroski, a United States citizen, residing at 10 Ashland Street, Medford, MA 02155, and Richard Lu, a United States citizen, residing at 50 Spring Park Avenue, Jamaica Plain, MA 02130, have invented certain new and useful improvements in EPISOMALLY REPLICATING LENTIVIRAL VECTORS for which we have executed an application for Letters Patent in the United States, filed as U.S. Serial Number 09/990,879 on November 21, 2001;

AND WHEREAS, Dana-Farber Cancer Institute, Inc., a Massachusetts corporation, with its principal place of business at 44 Binney Street, Boston, MA 02115, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, the entire right, title and interest throughout the world 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 rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents 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 all Letters Patent for said improvements to the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 101 Federal Street, Boston, Massachusetts 02110, U.S.A. the power to insert on this Assignment any further

identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark, Office for recordation of this document.

IN TESTIMONY WHEREOF, I, Alan Engelman, hereunto set my hand and seal this _____ day of _____, 20__.

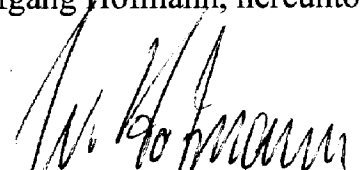
Alan Engelman

STATE OF _____
COUNTY OF _____ SS:

This _____ day of _____, 20__, before me personally came the above-named _____, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public


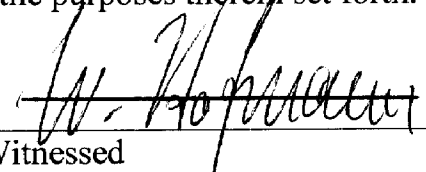
25 IN TESTIMONY WHEREOF, I, Wolfgang Hofmann, hereunto set my hand and seal this 25 day of January, 2002



Wolfgang Hofmann

STATE OF _____
COUNTY OF _____ SS:

This 25 day of January, 2002, before me personally came the above-named _____, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Witnessed

Bernd Seiferting
Novartis AG / EIBA Vision
Grossostheim
Germany

IN TESTIMONY WHEREOF, I, Joseph G. Sodroski, hereunto set my hand and seal this
____ day of _____, 20__.

Joseph G. Sodroski

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 20__, before me personally came the above-named _____, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public

IN TESTIMONY WHEREOF, I, Richard Lu, hereunto set my hand and seal this
____ day of _____, 20__.

Richard Lu

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 20__, before me personally came the above-named _____, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public