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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):

Edward F. Leonard

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

Yes No

2. Name and address of receiving party(ies)

Name: **The Trustees of Columbia University in the City of New York**

Address: 116th Street and Broadway

City: New York State: NY Zip: 10027

Additional name(s) and address(es) attached? Country:

Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name

Other:

Execution Date: August 7, 2001; August 17, 2001

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)

08/986,552

B. Patent No.(s)

OPR/FINANCE
JUL - 6 AM 8:15

Additional numbers attached?

Yes No

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

Name:

**BAKER BOTTS L.L.P.
30 Rockefeller Plaza - 44 Fl.
New York, NY 10112**

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number :
02-4377 (Charge any additional fees to this account)
(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature

To the best of my knowledge and belief, the foregoing instrumentation is true and correct and any attached copy is a true copy of the original document.

Lisa B. Kole

Name of Person Signing

Signature

July 1, 2004

Date

Page 1 of 2

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

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40.00 OP

**PATENT
REEL: 015561 FRAME: 0117**

ASSIGNMENT

WHEREAS, WE, EDWARD F. LEONARD, a citizen of the United States, and RENE CHEVRAY, a citizen of the United States, residing in Bronxville, New York, and Port Jefferson, New York, respectively, whose post office addresses are 29 Rossmore Avenue, Bronxville, New York 10708, and P.O. Box 195, Port Jefferson, New York 11777; respectively, an invention entitled "RECOVERY OF FETAL CELLS FROM MATERNAL BLOOD USING CHAOTIC ADVECTION" as set forth and described in application for Letters Patent of the United States, Serial No. 08/986,552, filed December 8, 1997; and

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (hereinafter "COLUMBIA"), having its principal place of business at 116th Street and Broadway, New York, New York 10027, is desirous of acquiring the entire right, title and interest of the said EDWARD F. LEONARD and RENE CHEVRAY in and to said invention, and any and all improvements thereon, and in and to any and all United States and foreign patent rights to said invention and improvements;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said EDWARD F. LEONARD and RENE CHEVRAY, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said COLUMBIA, and other valuable considerations unto us moving from said COLUMBIA, at or before the ensembling and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said COLUMBIA, its successors and assigns, their entire right, title and interest in and to the said invention entitled "RECOVERY OF FETAL CELLS FROM MATERNAL BLOOD USING CHAOTIC ADVECTION", as set forth and described in application for Letters Patent of the United States, Serial No. 08/986,552, filed December 8, 1997, and any and all improvements thereon, and in and to said application and any division, continuation, continuation-in-part, extensions and substitutions thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues and reexaminations thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention and improvements, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said EDWARD F. LEONARD and RENE CHEVRAY, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said COLUMBIA, as the assignee of their entire right, title and interest in and to the same, for the sole use and benefit of said COLUMBIA, its successors and assigns;

AND WE, the said EDWARD F. LEONARD and RENE CHEVRAY, for the considerations aforesaid, do hereby covenant and agree to and with said COLUMBIA, its

successors and assigns, that WE have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that WE, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said COLUMBIA, its successors and assigns, may be required or necessary more effectively to secure to and vest in said COLUMBIA, its successors and assigns, the entire right, title and interest of the said EDWARD F. LEONARD and RENE CHEVRAY in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owners of the patent or patents which may be issued for the said invention or improvements.

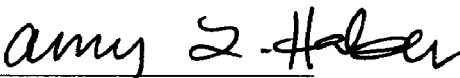
IN WITNESS WHEREOF, WE, the said EDWARD F. LEONARD and RENE CHEVRAY, have hereunto set our hands and seals on the date below written.


EDWARD F. LEONARD

STATE OF NEW YORK)
:SS.:
COUNTY OF NEW YORK)

BE IT KNOWN, that on this 7th day of August, 2001, before me personally came EDWARD F. LEONARD, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 01HA5083858
Qualified in Queens County
Commission Expires July 29,
2002


Notary Public

SEAL

Rene Chevray
RENE CHEVRAY

STATE OF NEW YORK)
 :SS:
COUNTY OF NEW YORK)

BE IT KNOWN, that on this 17 day of August, 2001, before me personally came RENE CHEVRAY, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

Amy L. Haber
Notary Public

S E A L

AMY L. HABER
NOTARY PUBLIC, State of New York
No. 01HA003868
Qualified in Queens County
Commission Expires July 29, 2002