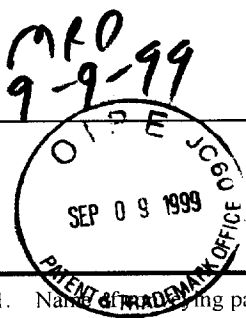


09-13-1999



101143513

Attorney Docket Number



TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS
Box Assignment
Washington, DC 20231

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
KATHERINE GALVIN; MICHAEL J. DONOVAN; DENNIS HUSZAR; DEAN A. FALB; and MICHAEL A. GIMBRONE, JR.
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: MILLENNIUM PHARMACEUTICALS, INC.
Address: 75 Sidney Street Cambridge, MA 02139
Country (if other than USA): _____

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: August 26, 1999; September 7, 1999; September 2, 1999; August 5, 1999; and August 4, 1999

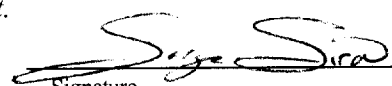
and
Name: BRIGHAM AND WOMEN'S HOSPITAL
Address: 75 Francis Street, Boston, MA 02115
Country (if other than USA): _____

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) 09/288,292 | B. Patent No.(s) _____
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Serge Sira
PENNIE & EDMONDS LLP
1667 K Street, N.W.
Washington, D.C. 20006

6. Number of applications and patents involved: 1
7. Total fee (37 CFR 3.41):.....\$ 40.00
Please charge to the deposit account listed in Section 8.
8. Deposit account number:
16-1150

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.
Serge Sira 39,445  September 9, 1999
Name of Person Signing Reg. No. Signature Date
Total number of pages including cover sheet: 6

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

09/10/1999 DNGUYEN 00000269 161150 09288292
01 FC:581 40.00 CH

ASSIGNMENT

8/26

WHEREAS, WE, Katherine Galvin, residing at 29 Pershing Rd, Jamaica Plain MA 02130, a citizen of the United States; Dean A. Falb, residing at 28 Swarthmore Road, Wellesley, Massachusetts 02482, a citizen of the United States; Michael J. Donovan, residing at 265 Dudley Street, Brookline, Massachusetts 02445, a citizen of the United States; and Dennis Huszar, residing at 4 Agawam Road, Acton, Massachusetts 01720, a citizen of Canada; ASSIGNORS, are the inventors of the invention in

COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE

for which we have executed an application for a Patent of the United States

- which is identified by Pennie & Edmonds LLP docket no. 7853-140
which was filed on April 8, 1999, Application No. 09/288,292

and WHEREAS, MILLENNIUM PHARMACEUTICALS, INC., ASSIGNEE, having a principal place of business at 640 Memorial Drive, Cambridge, Massachusetts 02139, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention 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 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 or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, 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 ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 8/26/99, 1999 Katherine M. Galvin L.S.
KATHERINE GALVIN

State of MASSACHUSETTS
County of Middlesex

In the State of MASSACHUSETTS, county of Middlesex, on 8/26, 1999, before me, Notary Public, personally appeared Katherine Galvin, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

[Signature]

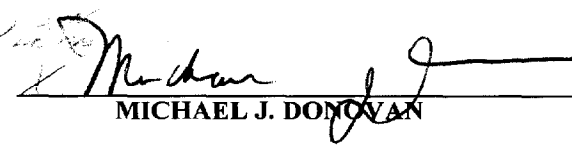
Date _____, 1999 _____ L.S.

DEAN A. FALB

State of _____)
County of _____) SS.: _____

In the State of _____, county of _____, on _____, 1999, before me, _____, Notary Public, personally appeared **Dean A. Falb**, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date 9/21/99, 1999  _____ L.S.
MICHAEL J. DONOVAN

State of MASSACHUSETTS
County of MIDDLESEX) SS.: _____

In the State of MASSACHUSETTS, county of MIDDLESEX, on 9/21/99, before me, Dennis Huszar, Notary Public, personally appeared **Michael J. Donovan**, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal


Date 9/2/99, 1999  _____ L.S.
DENNIS HUSZAR

State of MASSACHUSETTS
County of MIDDLESEX) SS.: _____

In the State of MASSACHUSETTS, county of MIDDLESEX, on 9/2/99, before me, Dennis Huszar, Notary Public, personally appeared **Dennis Huszar**, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal



JOINT

ASSIGNMENT

WHEREAS, WE, Katherine Galvin, residing at 162 Applcton Street, Cambridge, Massachusetts 02138, a citizen of the United States; Dean A. Falb, residing at 28 Swarthmore Road, Wellesley, Massachusetts 02482, a citizen of the United States; Michael J. Donovan, residing at 265 Dudley Street, Brookline, Massachusetts 02445, a citizen of the United States; and Dennis Huszar, residing at 4 Agawam Road, Acton, Massachusetts 01720, a citizen of Canada; ASSIGNORS, are the inventors of the invention in

COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE

for which we have executed an application for a Patent of the United States

- which is identified by Pennic & Edmonds LLP docket no. 7853-140
which was filed on April 8, 1999, Application No. 09/288,292

and WHEREAS, MILLENNIUM PHARMACEUTICALS, INC., ASSIGNEE, having a principal place of business at 640 Memorial Drive, Cambridge, Massachusetts 02139, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention 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 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 or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, 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 ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date _____, 1999 _____ L.S.
KATHERINE GALVIN

State of }
County of } SS.:

In the State of _____, county of _____, on _____, 1999, before me, _____, Notary Public, personally appeared Katherine Galvin, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date August 5, 1999 Dean A Falb L.S.
DEAN A. FALB

State of Mass }
County of Norfolk } SS.:

In the State of Massachusetts, county of Norfolk, on Aug 5, 1999, before me, Iena Bergdon, Notary Public, personally appeared Dean A. Falb, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Iena Bergdon

Date _____, 1999 MICHAEL J. DONOVAN L.S.

State of _____ }
County of _____ } SS.:

In the State of _____, county of _____, on _____, 1999, before me, _____, Notary Public, personally appeared Michael J. Donovan, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date _____, 1999 DENNIS HUSZAR L.S.

State of _____ }
County of _____ } SS.:

In the State of _____, county of _____, on _____, 1999, before me, _____, Notary Public, personally appeared Dennis Huszar, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

ASSIGNMENT

WHEREAS, I, Michael A. Gimbrone, Jr., ASSIGNOR, citizen of the United States, residing at 30 Hopkins Road, Jamaica Plain, Massachusetts 02130, am the inventor of the invention in

COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE

for which I have executed an application for a Patent of the United States

- which is identified by Pennie & Edmonds LLP docket no. 7853-140
which was filed on April 8, 1999, Application No. 09/288,292

and WHEREAS, Brigham and Women's Hospital, ASSIGNEE, an institution organized and existing under the laws of the State of Massachusetts, and having a principal place of business at 75 Francis Street, Boston, Massachusetts 02115, is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I 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 it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 4th day of August, 1999.

Handwritten signature of Michael A. Gimbrone, Jr. with L.S. below it.

State of MASSACHUSETTS)
) SS.:
County of Middlesex

In the State of MASSACHUSETTS, county of Middlesex, on August 4, 1999, before me, Notary Public, personally appeared Michael A. Gimbrone, Jr., personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Handwritten signature of Notary Public and My Commission Expires: October 21, 2005