

A/D 581.40

FORM PTO-1595  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)

07-22-2003



102503100

COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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10/380611  
A113

DT09 Rec'd PCT/PTO 14 MAR 2003  
The attached original documents or copy thereof.

To the Honorable Commissioner

1. Name of conveying party(ies):

- (1) Jeffrey Browning
- (2) Linda Burkly
- (3) Aniela Jakubowski and
- (4) Timothy Zheng

3-14-03

2. Name and address of receiving party(ies)

Name: BIOGEN, INC.

Internal Address: \_\_\_\_\_

Street Address: 14 Cambridge Center

City: Cambridge State: MA ZIP: 02142

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

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: March 12, 2003

4. Application number(s) or patent number(s):

10380611

If this document is being filed together with a new application, the execution date of the application is: March 12, 2003

A. Patent Application No.(s).

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Jonathan M. Kaplan

Internal Address: \_\_\_\_\_

Street Address: FISH & NEAVE

1251 Avenue of the Americas

City: New York State: NY ZIP: 10020

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

Charge excess/credit overpayment to deposit account

8. Deposit account number:

06-1075

(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.

Jonathan M. Kaplan  
Name of Person Signing

*Jonathan M. Kaplan*  
Signature

3/14/03  
Date

Reg. No. 46,819

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

7

PCT  
ASSIGNMENT

We,

- (1) Jeffrey Browning,
- (2) Linda Burkly,
- (3) Aniela Jakubowski, and
- (4) Timothy Zheng,

residing at:

- (1) 32 Milton Road, Brookline, MA, 02146,
- (2) 34 Winthrop Street, West Newton, MA, 02465,
- (3) 151 Mystic Street, #41, Arlington, MA, 02474,
- (4) 221 Massachusetts Avenue, Apt. 1105, Boston, MA, 02115,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, and do hereby assign, sell and transfer to BIOGEN, INC., a corporation organized and existing under the laws of the State of Massachusetts and having an office and a place of business at 14 Cambridge Center, Cambridge, MA, 02142, its successors and assigns: (1) the entire right, title and interest in all countries throughout the world in and to any and all our inventions and discoveries disclosed in our International Patent Application, filed under the Patent Cooperation Treaty in the United States Receiving Office ("RO/US"), entitled:

TWEAK RECEPTOR AGONISTS AS ANTI-ANGIOGENIC AGENTS,

and designating Albania (AL), Algeria (DZ), Antigua & Barbuda (AG), Armenia (AM), Australia (AU), Austria (AT), Azerbaijan (AZ), Barbados (BB), Belarus (BY), Belgium (BE), Belize (BZ), Benin (BJ), Bosnia and Herzegovina (BA), Brazil (BR), Bulgaria (BG), Burkina Faso (BF), Cameroon (CM), Canada (CA), Central African Republic (CF), Chad (TD), China (CN), Colombia (CO), Congo (CG), Costa Rica (CR), Côte d'Ivoire (CI), Croatia (HR), Cuba (CU), Cyprus (CY), Czech Republic (CZ), Democratic People's Republic of Korea (KP), Denmark (DK), Dominica (DM), Ecuador (EC),

Equatorial Guinea (GQ); Estonia (EE), Finland (FI), France (FR), Gabon (GA), Gambia (GM), Georgia (GE), Germany (DE), Ghana (GH), Greece (GR), Grenada (GD), Guinea (GN), Guinea Bissau (GW), Hungary (HU), Iceland (IS), India (IN), Indonesia (ID), Ireland (IE), Israel (IL), Italy (IT), Japan (JP), Kazakstan (KZ), Kenya (KE), Kyrgyzstan (KG), Latvia (LV), Lesotho (LS), Liberia (LR), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Madagascar (MG), former Yugoslav Republic of Macedonia (MK), Malawi (MW), Mali (ML), Mauritania (MR), Mexico (MX), Monaco (MC), Mongolia (MN), Morocco (MA), Mozambique (MZ), Netherlands (NL), New Zealand (NZ), Niger (NE), Norway (NO), Poland (PL), Portugal (PT), Republic of Korea (KR), Republic of Moldova (MD), Romania (RO), Russian Federation (RU), Saint Lucia (LC), Senegal (SN), Sierra Leone (SL), Singapore (SG), Slovakia (SK), Slovenia (SI), South Africa (ZA), Spain (ES), Sri Lanka (LK), Sudan (SD), Swaziland (SZ), Sweden (SE), Switzerland (CH), Tajikistan (TJ), Tanzania (TZ), Togo (TG), Trinidad and Tobago (TT), Turkey (TR), Turkmenistan (TM), Uganda (UG), Ukraine (UA), United Arab Emirates (AE), United Kingdom (GB), United States of America (US), Uzbekistan (UZ), Viet Nam (VN), Yugoslavia (YU), and Zimbabwe (ZW).

[subsequently identified as International Patent PCT/US01/28451, filed September 12, 2001], including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of BIOGEN, INC., its designee, or in my name at BIOGEN, INC.'s, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue on the aforesaid inventions, discoveries and applications in any country of the world and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the following priority application(s):

60/232,355  
application no.

United States  
country

September 14, 2000  
filing date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to BIOGEN, INC. as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of BIOGEN, INC., to execute and to deliver to BIOGEN, INC. any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree, at any time, upon request of BIOGEN, INC. to execute and to deliver to BIOGEN, INC. such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect any and all rights of BIOGEN, INC. under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

ASSIGNOR:

3/12/03  
Date

Jeffrey Browning (1)  
Jeffrey Browning

On this 12 day of March, 2003, Jeffrey Browning (1) personally appeared before me, a Notary Public in and for State of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Patricia A. Hefstetter  
Notary Public

(Notarial Seal)

My Commission Expires:

May 19, 2006

ASSIGNOR:

March 12, 2003  
Date

Linda Burkly (2)  
Linda Burkly

On this 12 day of March, 2003, Linda Burkly (2) personally appeared before me, a Notary Public in and for State of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Patricia A. Hoffella  
Notary Public

(Notarial Seal)

My Commission Expires:

May 19, 2006

ASSIGNOR:

March 12, 2003  
Date

Aniela Jakubowski (3)  
Aniela Jakubowski

On this 12 day of March, 2003, Aniela Jakubowski (3) personally appeared before me, a Notary Public in and for State of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Patricia A. Hoffella  
Notary Public

(Notarial Seal)

My Commission Expires:

May 19, 2006

ASSIGNOR:

March 12, 2003  
Date

Timothy Zheng (4)  
Timothy Zheng

On this 12 day of March, 2003, Timothy Zheng (4)  
personally appeared before me, a Notary Public in and for State of Massachusetts,  
and executed the foregoing Assignment and duly acknowledged to me that such  
Assignment was executed for the uses and purposes therein expressed.

Patricia A. Hull

Notary Public

(Notarial Seal)

My Commission Expires:

May 19, 2006

ACKNOWLEDGEMENT OF ASSIGNEE:

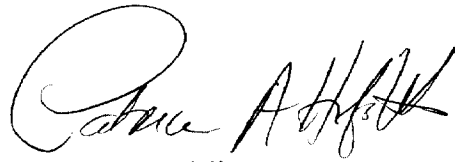
BIOGEN, INC.

By:  \_\_\_\_\_

Name: Raymond G. Arner

Title: Vice President, Chief IP Counsel

On this 13 day of March, 2003, Raymond G. Arner personally appeared before me, a Notary Public in and for the State of Massachusetts, and duly acknowledged the executed Assignment on behalf of the Assignee.



Notary Public

(Notarial Seal)

My Commission Expires:

May 19, 2006