

05-27-1999

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DOCKET NO. 4292-022-55CONT



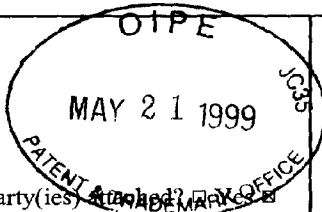
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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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

## 1. Name of conveying party(ies):

- (1) R. Douglas ARMSTRONG  
(2) James MALUTA  
(3) David ROECKER



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

Name: AASTROM BIOSCIENCES, INC.

Address: 24 Frank Lloyd Wright Drive  
Ann Arbor, MI 48105Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

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

Execution Date: April 30, 1999; April 28, 1999; and April 22, 1999

Additional name(s) &amp; 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)  
08/939,489

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.  
Attorneys at Law  
Fourth Floor  
1755 Jefferson Davis Highway  
Arlington, Virginia 22202

## 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: \_\_\_\_\_

(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 information is true and correct and any attached copy is a true copy of the original document.

Bradley D. Lytle  
Name of Person Signing  
Registration No. 40,073

*Bradley D. Lytle*  
Signature

May 20, 1999  
Date

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PATENT  
REEL: 009970 FRAME: 0827

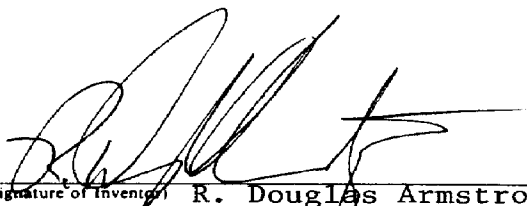


I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 4/30/99

  
(Signature of Inventor) R. Douglas Armstrong

Date: \_\_\_\_\_

(Signature of Inventor) James Maluta

Date: \_\_\_\_\_

(Signature of Inventor) David Roecker

Date: \_\_\_\_\_

(Signature of Inventor)

Date: \_\_\_\_\_

(Signature of Inventor)

Date: \_\_\_\_\_

(Signature of Inventor)

Date: \_\_\_\_\_

(Signature of Inventor)

Date: \_\_\_\_\_

(Signature of Inventor)

**OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.**  
ATTORNEYS AT LAW  
FOURTH FLOOR  
1755 JEFFERSON DAVIS HIGHWAY  
ARLINGTON, VIRGINIA 22202

## Assignment Of Application

Page 1 of 2

WHEREAS, I (WE) R. DOUGLAS ARMSTRONG, 2374 Delaware Drive, Ann Arbor,

Michigan 48105; JAMES MALUTA, 2430 Scio Road, Dexter, Michigan 48130; and  
DAVID ROECKER, 760 Marion Street, Denver, Colorado 80218

**INSERT NAMES  
AND RESIDENCE  
ADDRESSES OF  
THE INVENTORS:**

—, respectively,

**INSERT TITLE  
OF INVENTION:**

have invented certain new and useful improvements in: BIOREACTOR FOR MAMMALIAN CELL  
GROWTH AND MAINTENANCE

**INSERT DATE IN-  
VENTORS SIGNED  
DECLARATION:**

for which an application for Letters Patent was executed on \_\_\_\_\_

(Application No. 08/939,489, filed SEPTEMBER 29, 1997), and

**INSERT NAME  
AND ADDRESS OF  
COMPANY OR  
OTHER ASSIGNEE:**

**WHEREAS, AASTROM BIOSCIENCES, INC.**

(hereinafter referred to as "ASSIGNEE") having a place of business at: 24 Frank Lloyd Wright Drive, Ann Arbor, Michigan 48105

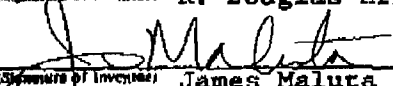
is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

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Date: _____	(Signature of Inventor) R. Douglas Armstrong
Date: <u>4-28-99</u>	(Signature of Inventor)  James Malura
Date: _____	(Signature of Inventor) David Roecker
Date: _____	(Signature of Inventor) _____
Date: _____	(Signature of Inventor) _____
Date: _____	(Signature of Inventor) _____
Date: _____	(Signature of Inventor) _____
Date: _____	(Signature of Inventor) _____

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INSERT NAMES  
AND RESIDENCE  
ADDRESSES OF  
THE INVENTORS:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_, respectively,

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have invented certain new and useful improvements in: BIOREACTOR FOR MAMMALIAN CELL  
GROWTH AND MAINTENANCE

INSERT DATE IN-  
VENTORS SIGNED  
DECLARATION:

for which an application for Letters Patent was executed on \_\_\_\_\_

(Application No. 08/939,489, filed SEPTEMBER 29, 1997), and

INSERT NAME  
AND ADDRESS OF  
COMPANY OR  
OTHER ASSIGNEE:

WHEREAS, AASTROM BIOSCIENCES, INC.

(hereinafter referred to as "ASSIGNEE") having a place of business at: 24 Frank Lloyd  
Wright Drive, Ann Arbor, Michigan 48105

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any  
 Letters Patent that may be granted therefore in the United States and its territorial possessions and in  
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 Patent which may be granted therefor in the United States and its territorial possessions  
 and in any and all foreign countries and in and to any and all divisions, reissues, continua-  
 tions, substitutions and renewals thereof.

APR. 22. 1999 10:27AM OBLON SPIVAK USA

NO. 214 P. 25

Page 2 of 2

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Date: \_\_\_\_\_ (Signature of Inventor) E. Douglas Armstrong

Date: \_\_\_\_\_ (Signature of Inventor) James Maluta

Date: 4.22.99 (Signature of Inventor) David Roecker

Date: \_\_\_\_\_ (Signature of Inventor)

Date: \_\_\_\_\_ (Signature of Inventor)

Date: \_\_\_\_\_ (Signature of Inventor)

Date: \_\_\_\_\_ (Signature of Inventor)

Date: \_\_\_\_\_ (Signature of Inventor)

OBLON SPIVAK MCCLELLAND MAIER &amp; NEUSTADT

PATENT

RECORDED: 05/21/1999

REEL: 009970 FRAME: 0833