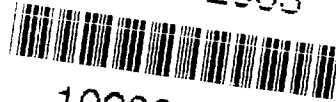


01-09-2003

Attorney's Docket No. 2000-073
PATENTForm PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)102332879
PATENTUS DEPARTMENT OF COMMERCE
Patent and Trademark OfficeTo the Honorable Assistant Commissioner of Patents and Trademarks.
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)

Liu, Mingjun
Hajduk, Damian
Frechet, Jean M.J.
Khoshdel, EzatNielsen, Ralph B.
Charmot, Dominique

12-27-02

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

2. Name and address of receiving party(ies)

Name: Symyx Technologies, Inc.
Legal Department
3100 Central Expressway
Santa Clara, CA 95051Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

☐ Assignment☐ Merger☒ Other Rerecording Assignment to correct names of
Assignors☐ Change of Name

Execution Date: 1/8/00; 1/10/00; 1/11/00; 1/26/00; 2/5/01; and 3/2/01

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) 09/679,127

B. Patent No.(s)

Filed: October 3, 2000

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:

Attorney's Name: Ronald A. Krasnow

Name: Symyx Technologies, Inc.
Legal Department
3100 Central Expressway
Santa Clara, CA 950516. 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: 50-0496

(Attached duplicate copy of this page if paying by deposit
account)

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 A. Krasnow Reg. No. 33, 321
(Name of Person Signing)

Signature

12-17-02

Date

Total number of pages being submitted, including cover sheet, attachment(s), and document(s) are: 8

Mail documents to be recorded with required cover sheet information to:

Box Assignments
Assistant Commissioner of Patents and Trademarks
Washington, DC 20231

01/08/2003 TDIAZ1 00000236 500496 09679127

01 FC:8021 40.00 CH

PATENT
REEL: 013631 FRAME: 0606

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

SHEET

US DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

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

<p>1. Name of conveying party(ies)</p> <p>Liu, Minjun Frechet, Jean M. J. Khoshdel, Ezat Nielsen, Ralph B. Charmot, Dominique</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: Symyx Technologies, Inc. Legal Department 3100 Central Expressway Santa Clara, CA 95051</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
---	---

3. Nature of Conveyance:

☒ Assignment ☐ Merger

☐ Other ☐ Change of Name

Execution Dates: Jan 08, 10, 11, 26, 200; March 2, 2001 and Feb. 5, 2001

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) 09/679,127 B. Patent No.(s)

Filed: October 03, 2000

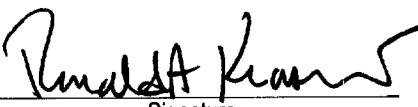
Additional numbers attached? ☐ Yes ☒ No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Attorney's Name: Ronald A. Krasnow</p> <p>Name: Symyx Technologies, Inc. Legal Department 3100 Central Expressway Santa Clara, CA 95051</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41):.....\$ 40.00</p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 50-0496 (Attached duplicate copy of this page if paying by deposit account)</p>
---	--

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 A. Krasnow Reg. No. 33, 321
(Name of Person Signing)

 June 11, 2001
Signature Date

Total number of pages being submitted, including cover sheet, attachment(s), and document(s) are: 5

Mail documents to be recorded with required cover sheet information to:
Box Assignments
Assistant Commissioner of Patents and Trademarks
Washington, DC 20231

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Mingjun Liu , Damian Hajduk, Jean M.J. Frechet, Ezat Khoshdel, Ralph B. Nielsen and Dominique Charmot, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letter Patent:

Title of Invention: **ABA-TYPE BLOCK COPOLYMERS HAVING A RANDOM
BLOCK OF HYDROPHOBIC AND HYDROPHILIC
MONOMERS AND METHODS OF MAKING SAME**

Filing Date: 10/03/2000 Application No.: 09/679,127 and

WHEREAS, **Symyx Technologies, Inc.**, a Delaware corporation, located at 3100 Central Expressway, Santa Clara, California 95051, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application, and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Date: 01/10/2001Mingjun Liu
Mingjun LiuSTATE OF California
COUNTY OF Santa Clara

On 1/10/01, before me, Renee Lamantia, Notary Public,
personally appeared Mingjun Liu personally known to me (or proved to me on the basis of satisfactory
evidence) to be the person(s) whose name(s) is/are 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.

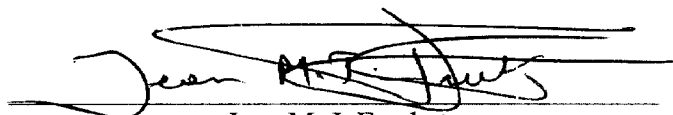
WITNESS my hand and official seal

Signature Renee LamantiaDate: 11 JANUARY 2001Damian Hajduk
Damian HajdukSTATE OF California
COUNTY OF Santa Clara

On 1/11/01, before me, Renee Lamantia, Notary Public,
personally appeared Damian Hajduk personally known to me (or proved to me on the basis of
satisfactory evidence) to be the person(s) whose name(s) is/are 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

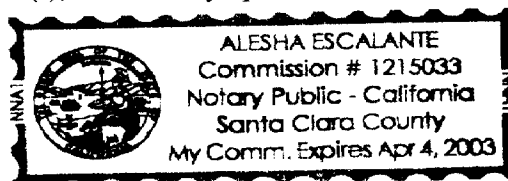
Signature Renee Lamantia

Date: March 2, 2001

 Jean M. J. Frechet

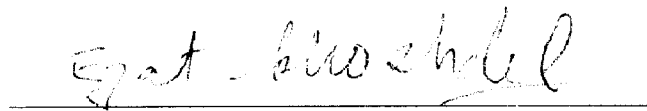
 STATE OF CALIFORNIA
 COUNTY OF SANTA CLARA

On MARCH 2, 2001, before me, ALESHA ESCALANTE, Notary Public, personally appeared JEAN FRECHET, personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person(s) whose name(s) is/~~are~~ 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} on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

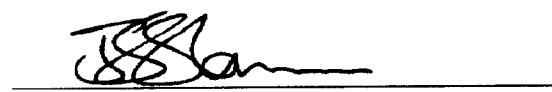
WITNESS my hand and official seal

Signature Alesha Escalante

(Seal)

Date: January 8th 2001

 Ezat Khoshdel

WITNESSED BY:


 Signature

January 8th 2001
 Date
Print Name: IAN E. STEVENSAddress: ERIC POTTER CLARKSON,58, THE ROPEWALK,NOTTINGHAM NG1 5DD, U.K.

Date: 2/5/01Ralph Nielsen
Ralph NielsenSTATE OF California
COUNTY OF Santa Clara

On 2/5/01, before me, Renee Lamantia, Notary Public,
personally appeared Ralph Nielsen personally known to me (or proved to me on the basis of satisfactory
evidence) to be the person(s) whose name(s) is/are 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 Renee LamantiaDate: January 26, 2001Dominique Charmot
Dominique CharmotSTATE OF California
COUNTY OF Santa Clara

On 1/26/01, before me, Suzanne R. Shadley, Notary Public,
personally appeared Dominique Charmot personally known to me (~~or proved to me on the basis of~~
~~satisfactory evidence~~) to be the person(s) whose name(s) is/~~are~~ 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 Suzanne R. Shadley