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OPR/FINANCE RECORDATION FORM COVER SHEET
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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

- ☐ New
- ☐ Resubmission (Non-Recordation)
Document ID#
- ☐ Correction of PTO Error
Reel # Frame #
- ☐ Corrective Document
Reel # Frame #

Conveyance Type

- ☐ Assignment ☒ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ Other
- U.S. Government**
(For Use ONLY by U.S. Government Agencies)
- ☐ Departmental File ☐ Secret File

Conveying Party(ies)

- ☐ Mark if additional names of conveying parties attached
- Execution Date
Month Day Year
6/30/99

Name (line 1) BBI BioSeq, Inc.

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Receiving Party

- ☐ Mark if additional names of receiving parties attached

Name (line 1) BankBoston, N.A.

Name (line 2)

Address (line 1) Worcester Tower, 100 Front Street, Worcester, MA 01608

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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04/04/2000 DNGUYEN 00000049 US9603232

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Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT
REEL: 010645 FRAME: 0437

Correspondent Name and Address

Area Code and Telephone Number 617-951-2053

Name Frank S. Hamblett

Address (line 1) Peabody & Arnold LLP, 50 Rows Wharf, Boston, MA 02110

Address (line 2)

Address (line 3)

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

#

Application Number(s) or Patent Number(s)

☒ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

PCT/US96/03232 08/903,615 08/962,280

08/793,213 09/010,892 09/083,651

PCT/US97/11198 09/016,062 09/035,652

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

PCT PCT PCT

PCT PCT PCT

Number of Properties

Enter the total number of properties involved.

13

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 520.00

Method of Payment:

Enclosed ☒

Deposit Account ☐

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

#

Authorization to charge additional fees:

Yes ☐

No ☐

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. Charges to deposit account are authorized, as indicated herein.

Frank S. Hamblett

Name of Person Signing

Frank S. Hamblett

Signature

2/24/00

Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

U.S. Department of Commerce
Patent and Trademark Office
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Execution Date
Month Day Year

Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

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Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/085,707

09/097,852

09/214,250

09/165,829

SECURITY AGREEMENT (PATENTS)
(for BBI BioSeq, Inc.)

This SECURITY AGREEMENT (PATENTS)(this "Agreement") is made as of June 30, 1999, by and between BBI BIOSEQ, INC., a Massachusetts corporation (together with its successors and assigns, "BioSeq") and BANKBOSTON, N.A., a national banking association (f/k/a The First National Bank of Boston)(together with its successors and assigns, the "Lender").

All capitalized terms not defined herein but defined in the Security Agreement-All Assets, dated of even date herewith (as the same may be amended, modified, supplemented, extended or restated, from time to time, the "Security Agreement-All Assets") by and among (a) Boston Biomedica, Inc., a Massachusetts corporation (together with its successors and assigns, "BBI"), (b) all of the Subsidiaries of BBI (including without limitation, BioSeq) which are now, or may hereafter become, parties thereto, in accordance with the provisions contained therein (BBI, together with all of its Subsidiaries, are hereinafter sometimes referred to collectively as the "Borrowers" and each singly as a "Borrower") and (c) the Lender, shall have the meanings given to such terms in the Security Agreement-All Assets.

Preliminary Statements:

A. The Borrowers request that the Existing Loan Agreement be amended and restated in its entirety as provided for in the Loan Agreement; and

B. BioSeq owns the patents and the patent applications set forth in Schedule 1 attached hereto and made a part hereof (collectively, the "Patents"); and

C. As a condition precedent to entering into the Loan Agreement, and lending certain sums and extending certain credit to or for the benefit of the Borrowers thereunder, and as a supplement to the Security Agreement-All Assets, the Lender has requested that BioSeq enter into this Agreement;

NOW, THEREFORE, in consideration of the mutual covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, BioSeq hereby agrees with the Lender as follows:

1. To secure the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of the Obligations, BioSeq does hereby grant to the Lender a continuing security interest in and to the Patents and all General Intangibles connected with the use of or related to any and all Patents (including without limitation, all goodwill of BioSeq and its business, products and services appurtenant to, associated with or symbolized by any and all Patents and the use thereof), together with all registrations of the Patents and the applications therefor, all in accordance with the terms and provisions of the Security Agreement-All Assets.

2. BioSeq and the Lender hereby expressly acknowledge and agree that all of the rights and remedies of the Lender with respect to the security interest granted hereby are more fully set forth in the Security Agreement-All Assets.

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be duly executed and delivered under their seals as of the date first above written.

WITNESS:

BBI BIOSEQ, INC.

Gayle Farrell
Name: GAYLE FARRELL

By: Kevin W. Quinlan
Kevin W. Quinlan, Treasurer

WITNESS:

BANKBOSTON, N.A. (f/k/a The First
National Bank of Boston)

Name:

By: _____
G. Christopher Miller, Director

COMMONWEALTH OF MASSACHUSETTS

Plymouth ss.

August 13, 1999

Then personally appeared the above-named Kevin W. Quinlan, as Treasurer of BBI BioSeq, Inc., and acknowledged the foregoing instrument to be his free act and deed, and the free act and deed of BBI BioSeq, Inc., before me.

Nancy M. Shell
Notary Public
My commission expires: Sept. 24, 2004
[AFFIX NOTARIAL SEAL]

COMMONWEALTH OF MASSACHUSETTS

_____, ss.

August __, 1999

Then personally appeared the above-named G. Christopher Miller, as Director of BankBoston, N.A., and acknowledged the foregoing instrument to be his free act and deed and the free act and deed of BankBoston, N.A., before me.

Notary Public
My commission expires:
[AFFIX NOTARIAL SEAL]

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be duly executed and delivered under their seals as of the date first above written.

WITNESS:

BBI BIOSEQ, INC.

Name: _____

By: _____
Kevin W. Quinlan, Treasurer

WITNESS:

BANKBOSTON, N.A. (f/k/a The First
National Bank of Boston)

Name: _____

By: _____
G. Christopher Miller, Director

COMMONWEALTH OF MASSACHUSETTS

_____, ss.

August __, 1999

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Notary Public
My commission expires:
[AFFIX NOTARIAL SEAL]

COMMONWEALTH OF MASSACHUSETTS

_____, ss.

August __, 1999

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Notary Public
My commission expires: _____
[AFFIX NOTARIAL SEAL]

SECURITY AGREEMENT (PATENTS)

by and between

BBI BIOSEQ, INC.
(“**BioSeq**”)

and

BANKBOSTON, N.A.
(the “**Lender**”)

List of U.S. Registered Patents (and Applications therefor)

Schedule 1

The following patents issued by, and the following patents applications pending with, the United States Patent and Trademark Office, are owned by BioSeq:

<u>Title</u>	<u>Serial No.</u>	<u>Patent No.</u>	<u>Date of Filing</u>	<u>Date of Issuance</u>
Pressure Cycling Reactor	PCT/US96/03232	Pending	03/07/96	N/A
Pressure Cycling Reactor	08/793,213	Pending	02/14/97	N/A
Pressure-Mediated Binding of BioMolecular Complexes	PCT/US97/11198	Pending	02/02/98	N/A
Integrated Sequencing Device	08/903,615	Pending	07/30/97	N/A
Pressure Modulated Ion Activity	09/010,892	Pending	01/22/98	N/A
Pressure Enhanced Extraction and Purification	09/016,062	Pending	01/30/98	N/A
Nucleic Acid Isolation and Purification	08/962,280	Pending	10/31/97	N/A
Pressure Enhanced Extraction and Purification	09/083,651	Pending	05/22/98	N/A
Pressure Controlled Nucleic Acid Hybridization	09/035,652	Pending	03/05/98	N/A
Cyrobaric Methods for Freezing, Thawing and Preserving Biological Materials	09/085,707	Pending	05/27/98	N/A

Rapid Cyrobaric Sterilization and Vaccine Preparation	09/097,852	Pending	06/15/98	N/A
Rapid Cyrobaric Sterilization and Vaccine Preparation	09/165,829	Pending	10/02/98	N/A
Pressure-Mediated Binding of Biomolecular Complexes	09/214,250	Pending	12/31/98	N/A

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