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Form PTO-1595
(Rev. 03/01)
OMB No. 0651-0027 (exp. 5/31/2002)

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PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
U.S. 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):

Abiomed R&D, Inc.

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

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: _____

2. Name and address of receiving party(ies)

Name: ABIOMED, INC.

Internal Address: _____

Street Address: 22 Cherry Hill Drive

City: Danvers

State: MA

Zip: 01923

Additional name(s) & 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 new application is: _____

A. Patent Application No.(s):
09/223,645

B. Patent No.(s): _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Lisa J. Michaud
NUTTER MCCLENNEN & FISH LLP

Internal Address: Atty. Dkt.: 102619-0041

Street Address: One International Place

City:
Boston

State: MA Zip: 02110-2699

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:

141449

(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.

Lisa J. Michaud
Name of Person Signing

Signature

November 2, 2001
Date

Total number of pages including cover sheet, attachments, and documents: 3

01/23/2002 LMUELLER 00000095 09223645

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PATENT
REEL: 012480 FRAME: 0001

ASSIGNMENT

WHEREAS, Abiomed R&D, Inc., a Delaware corporation (hereinafter "Assignor"), is the sole and exclusive owner, by assignment, of the following United States Patent(s) and/or application(s) for Letters Patent and the inventions described therein:

U.S. Patent No. 5,643,172, issued July 1, 1997, entitled "Tubular Circulatory Assist Device";

U.S. Patent No. 5,713,954, issued February 3, 1998, entitled "Extra Cardiac Ventricular Assist Device";

U.S. Patent No. 5,800,528, issued September 1, 1998, entitled "Passive Girdle for Heart Ventricle for Therapeutic Aid to Patients Having Ventricular Dilatation";

U.S. Application No. 09/223,242, filed December 30, 1998, entitled "Passive and Active Cardiac Girdle and Assist Device";

U.S. Application No. 09/223,645, filed December 30, 1998, entitled "Passive and Active Cardiac Girdle and Assist Device";

U.S. Application No. 09/693,541, filed October 20, 2000, entitled "Method for Assisting Pumping Action of a Natural Heart";

U.S. Patent No. 6,224,540, issued May 1, 2001, entitled "Passive Girdle for Heart Ventricle for Therapeutic Aid to Patients Having Ventricular Dilatation"; and

U.S. Application No. 09/017,632, filed February 3, 1998, entitled "Method for Assisting Pumping Action of a Natural Heart" (as amended).

WHEREAS, Abiomed, Inc., a Delaware corporation (hereinafter "Assignee"), is desirous of acquiring the right, title and interest in, to and under said Patent application(s) and the inventions covered thereby:


NOW, THEREFORE, in consideration of and in exchange for the sum of One Dollar (\$1.00) to be paid by assignee and other good and valuable consideration, the receipt of which is hereby acknowledged, assignor has sold, assigned, and transferred, and does hereby sell, assign, and transfer the entire right, title and interest in and to the above-mentioned inventions, application(s) for Letters Patent, and any and all applications for Letters Patent in the United States of America and in all foreign countries and in all Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application(s), or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for

the Protection of Industrial Property, the same to be held and enjoyed by the said assignees, for their own use and the use of their successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents, may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, the said assignor is the sole and lawful owner of the entire right, title and interest in and to the said inventions and the application(s) for Letters Patent above-mentioned, and that the same are unencumbered and that the said assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.


AND assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent or Patents of the United States on said inventions or resulting from said applications and any continuations, divisionals and reissues thereof to assignee as assignee of the entire interest, and hereby covenants that it has full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreements inconsistent herewith.

WITNESS my hand and seal this 23 day of October, 2001.

By: 
John F. Thero
Treasurer
Abiomed R&D, Inc.

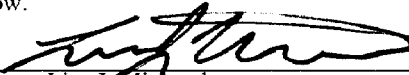
Massachusetts)
County of Essex)ss)

Then personally appeared the above named John F. Thero and acknowledged the foregoing instrument to be his free act and deed, before me, this 23 day of October, 2001.

Notary Public 
My commission expires: 5/10/07

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patents and Patent Applications for: ABIOMED R&D, Inc.

<u>Certificate of Mailing (37 C.F.R. 1.8(a))</u>	
I hereby certify that this correspondence is being deposited with the United States Postal Service Post Office as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on the date set forth below.	
11/2/01	By: 
Date of Signature and Mail Deposit	Lisa J. Michaud Reg. No: 44,238

Commissioner for Patents
Washington, DC 20231

STATEMENT UNDER 37 CFR 3.73(b)

Dear Sir:

ABIOMED R&D, Inc. states that they are the assignee of the entire right, title and interest in the patents and patent applications identified below by virtue of an assignment from the inventor(s) of the patents and patent applications identified. The assignments were recorded in the Patent and Trademark Office at the Reel and Frame indicated, or copies of assignments or other documents in the chain of title are attached.

U.S. Patent No. 5,643,172, issued July 1, 1997, entitled "Tubular Circulatory Assist Device," assigned to Abiomed R&D, Inc. by an assignment recorded at Reel 7387, Frames 0185;

U.S. Patent No. 5,713,954, issued February 3, 1998, entitled "Extra Cardiac Ventricular Assist Device," assigned to Abiomed R&D, Inc. by an assignment recorded at Reel 7527, Frames 0756;

U.S. Patent No. 5,800,528, issued September 1, 1998, entitled "Passive Girdle for Heart Ventricle for Therapeutic Aid to Patients Having Ventricular Dilatation," assigned to Abiomed R&D, Inc. by an assignment recorded at Reel 7892, Frames 0893;

U.S. Application No. 09/223,242, filed December 30, 1998, entitled "Passive and Active Cardiac Girdle and Assist Device," assigned to Abiomed R&D, Inc. by an assignment recorded at Reel 7892, Frames 0893;

U.S. Application No. 09/223,645, filed December 30, 1998, entitled "Passive and Active Cardiac Girdle and Assist Device," assigned to Abiomed R&D, Inc. by an assignment recorded at Reel 7892, Frames 0893;

U.S. Application No. 09/693,541, filed October 20, 2000, entitled "Method for Assisting Pumping Action of a Natural Heart," assigned to Abiomed R&D, Inc. by an assignment recorded at Reel 7892, Frames 0893;


U.S. Patent No. 6,224,540, issued May 1, 2001, entitled "Passive Girdle for Heart Ventricle for Therapeutic Aid to Patients Having Ventricular Dilatation," assigned to Abiomed R&D, Inc. by an assignment recorded at Reel 7892, Frames 0893-0895; and

U.S. Application No. 09/017,632, filed February 3, 1998, entitled "Method for Assisting Pumping Action of a Natural Heart" (as amended), assigned to Abiomed R&D, Inc. by an assignment recorded at Reel 7527, Frames 0756.

The undersigned (whose title is supplied below) is empowered to sign this STATEMENT UNDER 37 CFR 3.73(b) on behalf of the assignee.

Respectfully submitted,

Dated: 10/23/01

By: 
John F. Thero
Treasurer

Authorized Representative of:
ABIOMED R&D, Inc.

NUTTER, MCCLENNEN & FISH, LLP
One International Place
Boston, MA 02110-2699
Tel: (617)439-2550
Fax: (617)310-9550

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	09/223,645-1293
		Filing Date	December 30, 1998
		First Named Inventor	Robert T.V. Kung
		Group Art Unit	3738
		Examiner Name	D. Willse
Total Number of Pages in This Submission	6	Attorney Docket Number	102619-0041

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input checked="" type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below) 1. Statement Under 37 CFR 3.73(b) 2. Return Postcard		
<table border="1"> <tr> <td>Remarks</td> <td></td> </tr> </table>			Remarks	
Remarks				

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual Name	NUTTER MCCLENNEN & FISH LLP Lisa J. Michaud
Signature	
Date	November 2, 2001