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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks

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Original documents or copy thereof.

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Michael R. Rosen & Richard B. Robinson

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

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

Name: The Trustees of Columbia University in the City of New York

Internal Address: _____

Street Address: 116th Street and BroadwayCity New York State N.Y. ZIP 10027Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____Execution Date: October 19, 2001

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)

B. Patent No.(s)

Serial No. 09/875,388

FEB 14 2002

Additional numbers attached? ☐ Yes ☒ No

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

Name: John P. White

Internal Address: _____

Street Address: Cooper & Dunham LLP
1185 Avenue of the AmericasCity: New York State: New York ZIP 100366. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

03-3125

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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.

Peter J. Phillips

Name of Person Signing

Signature

1/25/02

Date

Total Number of pages including cover sheet: 3

I hereby certify that this paper is being deposited this date with the U.S. Postal Service as first class mail addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Peter J. Phillips, Reg. No. 29,691 Date 1/25/02

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PATENT
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ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, I, the undersigned,

Michael R. Rosen, residing at 25 East 86th Street, Apt. 14C, New York, New York 10028; and

Richard B. Robinson, residing at 67 Roosevelt St., Cresskill, NJ 07626

Hereby sell, assign and transfer to The Trustees of Columbia University in the City of New York, a New York corporation having a place of business at West 116th Street and Broadway, its successors, assigns and legal representatives, their entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, and is entitled

IMPLANTATION OF BIOLOGICAL PACEMAKER THAT IS MOLECULARLY DETERMINED

which application was filed on June 6, 2001, and assigned Serial No. 09/875,388 and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors,

assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Michael R. Rosen [L.S.]
Michael R. Rosen

Date: 10/19/01

Witness: Eileen Tracey
324 Remays Cove
Briarcliff Manor, NY
10510

Date: 10/19/01

Witness: Matthew J. Romano
3338 Ft. Independence St.
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Richard B. Robinson [L.S.]
Richard B. Robinson

Date: 10/19/01

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324 Remays Cove
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