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103026698

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1. Name of conveying party(ies)/Execution Date(s):

Joseph P. Vacanti

Execution Date(s): April 13, 2005

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

2. Name and address of receiving party(ies)

Name: The General Hospital Corporation

Internal Address:

Street Address:

55 Fruit Street

City: Boston

State: Massachusetts

Country: United States of America Zip: 02114

Additional name(s) & address(es) attached? Yes No

3. Nature of Conveyance:

Assignment

Merger

Security Agreement

Change of Name

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other

4. Application or patent number(s):

A. Patent Application No.(s)

10/528,737
US03/29880

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name:

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6. Total number of applications and patents involved:

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

Authorized to be charged by credit card

Authorized to be charged to deposit account

Enclosed

None required (government interest not affecting title)

8. Payment Information

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Authorized User Name Amy M. Leahy

9. Signature:

Amy Leahy
Signature

June 13, 2005

Date

Amy M. Leahy - 47,739

Name of Person Signing

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

5

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40.00 DA

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: June 13, 2005

Signature: *Denise Kacinski* (Denise Kacinski)

ASSIGNMENT BY INVENTOR

WHEREAS I, Joseph P. VACANTI, M.D., residing at 14 Woodside Road, Winchester, MA 01890 (hereinafter designated as the undersigned), having invented certain new and useful improvements in **THREE DIMENSIONAL CONSTRUCT FOR THE DESIGN AND FABRICATION OF PHYSIOLOGICAL FLUIDIC NETWORKS** for which International Patent Application No. PCT/US2003/029880 has been filed on September 23, 2003, having the Designated States of United Arab Emirates (AE); Antigua and Barbuda (AG); Albania (AL); Armenia (AM); Austria (AT); Australia (AU); Azerbaijan (AZ); Bosnia and Herzegovina (BA); Barbados (BB); Belgium (BE); Burkina Faso (BF); Bulgaria (BG); Benin (BJ); Brazil (BR); Belarus (BY); Belize (BZ); Canada (CA); Central African Republic (CF); Congo (CG); Switzerland (CH); Cote d'Ivoire (CI); Cameroon (CM); China (CN); Colombia (CO); Costa Rica (CR); Cuba (CU); Cyprus (CY); Czech Republic (CZ); Germany (DE); Denmark (DK); Dominica (DM); Algeria (DZ); Ecuador (EC); Estonia (EE); Egypt (EG); Spain (ES); Finland (FI); France (FR); Gabon (GA); Great Britain (GB); Grenada (GD); Georgia (GE); Ghana (GH); Gambia (GM); Guinea (GN); Equatorial Guinea (GQ); Greece (GR); Guinea-Bissau (GW); Croatia (HR); Hungary (HU); Indonesia (ID); Ireland (IE); Israel (IL); India (IN); Iceland (IS); Italy (IT); Japan (JP); Kenya (KE); Kyrgyzstan (KG); Democratic People's Republic of Korea (KP); Republic of Korea (KR); Kazakhstan (KZ); Saint Lucia (LC); Sri Lanka (LK); Liberia (LR); Lesotho (LS); Lithuania (LT); Luxembourg (LU); Latvia (LV); Morocco (MA); Monaco (MC); Republic of Moldova (MD); Madagascar (MG); The former Yugoslav Republic of Macedonia (MK); Mali (ML); Mongolia (MN); Mauritania (MR); Malawi (MW); Mexico (MX); Mozambique (MZ); Niger (NE); Nicaragua (NI); Netherlands (NL); Norway (NO); New Zealand (NZ); Oman (OM); Papua New Guinea (PG); Philippines (PH); Poland (PL); Portugal (PT); Romania (RO); Russian Federation (RU); Seychelles (SC); Sudan (SD); Sweden (SE); Singapore (SG); Slovenia (SI); Slovakia (SK); Sierra Leone (SL); Senegal (SN); Syria (SY); Swaziland (SZ); Chad (TD); Togo (TG); Tajikistan (TJ); Turkmenistan (TM); Tunisia (TN); Turkey (TR); Trinidad and Tobago (TT); United Republic of Tanzania (TZ); Ukraine (UA); Uganda (UG); United States of America (US); Uzbekistan (UZ); St. Vincent & Grenadines (VC); Viet Nam (VN); Yugoslavia (YU); South Africa (ZA); Zambia (ZM); Zimbabwe (ZW), and claiming priority to U.S. patent application nos. 60/412,981 and 60/449,291 filed September 23, 2002 and February 21, 2003, respectively, and

WHEREAS, THE GENERAL HOSPITAL CORPORATION, a Non-profit Corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at **55 Fruit Street, Boston, MA 02114**, its heirs, successors, legal representatives and assigns (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said International Patent Application No. PCT/US2003/029880 and any application for Patent in the Designated States claiming priority to International Patent Application No. PCT/US2003/029880, and in and to any Patent to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer

and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and International Patent Application No. PCT/US2003/029880 and any application for Patent in the Designated States claiming priority to International Patent Application No. PCT/US2003/029880, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and International Patent Application No. PCT/US2003/029880 and any application for patent in the Designated States claiming priority to International Patent Application No. PCT/US2003/029880 above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Patent and applications for Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Patent, or any proceeding in connection with any Patent or applications for Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Patent, or any reissue, reexamination or extension of any Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

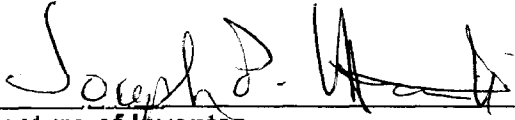
AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

EDWARDS & ANGELL, LLP
P.O. Box 55874
Boston, MA 02205
Tel. No. (617) 439-4444

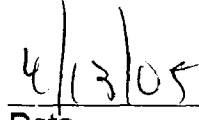
All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

In witness whereof, signed by the undersigned on the date(s) opposite the undersigned name(s).



Signature of Inventor
JOSEPH P. VACANTI, M.D.



Date