

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Hiroyuki Takei	11/14/2011
Hideyuki Terazono	11/01/2011
Kenji Yasuda	10/25/2011

**RECEIVING PARTY DATA**

<b>Name:</b>	KANAGAWA ACADEMY OF SCIENCE AND TECHNOLOGY
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<b>City:</b>	Takatsu-ku, Kawasaki-shi, Kanagawa
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	2130012

<b>Name:</b>	NATIONAL UNIVERSITY CORPORATION TOKYO MEDICAL AND DENTAL UNIVERSITY
<b>Street Address:</b>	5-45, Yushima 1-chome
<b>City:</b>	Bunkyo-ku, Tokyo
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	1138510

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	13138784

**CORRESPONDENCE DATA**

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OP \$40.00 13138784

**501743347**

**PATENT**  
**REEL: 027325 FRAME: 0208**

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ATTORNEY DOCKET NUMBER:	023312-0185
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NAME OF SUBMITTER:	Stephen B. Maebius
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<p>Total Attachments: 6 source=023312-0185 Executed Assignment#page1.tif source=023312-0185 Executed Assignment#page2.tif source=023312-0185 Executed Assignment#page3.tif source=023312-0185 Executed Assignment#page4.tif source=023312-0185 Executed Assignment#page5.tif source=023312-0185 Executed Assignment#page6.tif</p>
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**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

KANAGAWA ACADEMY OF SCIENCE AND TECHNOLOGY  
2-1, Sakado 3-chome, Takatsu-ku, Kawasaki-shi, Kanagawa 2130012 Japan

NATIONAL UNIVERSITY CORPORATION TOKYO MEDICAL  
AND DENTAL UNIVERSITY  
5-45, Yushima 1-chome, Bunkyo-ku, Tokyo 1138510 Japan

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

**LIQUID REFLUX HIGH-SPEED GENE AMPLIFICATION DEVICE**

as set forth in this United States Patent Application

*Check one*       executed concurrently herewith  
                   executed on \_\_\_\_\_  
                   Serial No. \_\_\_\_\_ Filed \_\_\_\_\_  
and

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by

ASSIGNEE, its successors and assigns, in any such proceeding in the United States; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

**NAME AND SIGNATURE OF INVENTOR**

NAME: HIROYUKI TAKEI      SIGNATURE: *Hiroyuki Takei*      DATE: Nov 14, 2011

**NAME AND SIGNATURE OF WITNESSES**

NAME: Bun-ichi Shimizu      SIGNATURE: *B Shimizu*      DATE: Nov. 14, 2011

NAME: Masako Ota      SIGNATURE: *Masako Ota*      DATE: Nov 14, 2011

**NAME AND SIGNATURE OF INVENTOR**

NAME: HIDEYUKI TERAZONO      SIGNATURE: *Hideyuki Terazono*      DATE: Nov. 1, 2011

**NAME AND SIGNATURE OF WITNESSES**

NAME: Junichi Mizuno      SIGNATURE: *Junichi Mizuno*      DATE: Nov. 1, 2011

NAME: Koichiro Nishimura      SIGNATURE: *Koichiro Nishimura*      DATE: Nov. 1, 2011

**NAME AND SIGNATURE OF INVENTOR**

NAME: KENJI YASUDA      SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**NAME AND SIGNATURE OF WITNESSES**

NAME: \_\_\_\_\_      SIGNATURE: \_\_\_\_\_      DATE: \_\_\_\_\_

NAME: \_\_\_\_\_      SIGNATURE: \_\_\_\_\_      DATE: \_\_\_\_\_

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

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**NAME AND SIGNATURE OF INVENTOR**

NAME: HIROYUKI TAKEI                      SIGNATURE: \_\_\_\_\_                      DATE: \_\_\_\_\_

**NAME AND SIGNATURE OF WITNESSES**

NAME: \_\_\_\_\_                      SIGNATURE: \_\_\_\_\_                      DATE: \_\_\_\_\_

NAME: \_\_\_\_\_                      SIGNATURE: \_\_\_\_\_                      DATE: \_\_\_\_\_

**NAME AND SIGNATURE OF INVENTOR**

NAME: HIDEYUKI TERAZONO                      SIGNATURE: \_\_\_\_\_                      DATE: \_\_\_\_\_

**NAME AND SIGNATURE OF WITNESSES**

NAME: \_\_\_\_\_                      SIGNATURE: \_\_\_\_\_                      DATE: \_\_\_\_\_

NAME: \_\_\_\_\_                      SIGNATURE: \_\_\_\_\_                      DATE: \_\_\_\_\_

**NAME AND SIGNATURE OF INVENTOR**

NAME: KENJI YASUDA      SIGNATURE: 安田 賢二      DATE: Oct. 25, 2011

**NAME AND SIGNATURE OF WITNESSES**

NAME: TOMOYUKI KANEKO      SIGNATURE: 金子 智行      DATE: Oct. 25, 2011

NAME: MIWA TSURUMAKI      SIGNATURE: 弦 牧 美 和      DATE: Oct. 25 2011

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