

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Masateru Taniguchi</td> <td>06/03/2013</td> </tr> <tr> <td>Makusu Tsutsui</td> <td>05/31/2013</td> </tr> <tr> <td>Kazumichi Yokota</td> <td>06/03/2013</td> </tr> <tr> <td>Tomoji Kawai</td> <td>05/31/2013</td> </tr> </tbody> </table>		Name	Execution Date	Masateru Taniguchi	06/03/2013	Makusu Tsutsui	05/31/2013	Kazumichi Yokota	06/03/2013	Tomoji Kawai	05/31/2013
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<table border="1"> <tr> <td>Name:</td> <td>Osaka University</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Yamadaoka, Suita-shi</td> </tr> <tr> <td>City:</td> <td>Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>5650871</td> </tr> </table>		Name:	Osaka University	Street Address:	1-1, Yamadaoka, Suita-shi	City:	Osaka	State/Country:	JAPAN	Postal Code:	5650871
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CORRESPONDENCE DATA											
Fax Number: 6172274420 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 6172390100 Email: hmurraytarbi@edwardswildman.com Correspondent Name: Edwards Wildman Palmer LLP Address Line 1: P.O. Box 55874 Address Line 4: Boston, MASSACHUSETTS 02205											
ATTORNEY DOCKET NUMBER:	92736.301763										
NAME OF SUBMITTER:	George W. Neuner										
Signature:	/George W. Neuner/										

Date:

08/22/2013

Total Attachments: 3

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## ASSIGNMENT BY INVENTOR

**THIS ASSIGNMENT**, made this \_\_\_\_\_ day of \_\_\_\_\_, by Masateru TANIGUCHI; Makusu TSUTSUI; Kazumichi YOKOTA; and Tomoji KAWAI (hereinafter referred to as Assignor), residing at c/o Osaka University, 1-1, Yamadaoka, Suita-shi, Osaka 5650871 JAPAN; c/o Osaka University, 1-1, Yamadaoka, Suita-shi, Osaka 5650871 JAPAN; c/o Osaka University, 1-1, Yamadaoka, Suita-shi, Osaka 5650871 JAPAN; and c/o Osaka University, 1-1, Yamadaoka, Suita-shi, Osaka 5650871 JAPAN respectively.

**WHEREAS**, Assignor has invented certain new and useful improvements in METHOD AND DEVICE FOR IDENTIFYING NUCLEOTIDE, AND METHOD AND DEVICE FOR DETERMINING NUCLEOTIDE SEQUENCE OF POLYNUCLEOTIDE, set forth in a Patent application for which an International Application was filed on March 1, 2011, PCT/JP2011/054631, designating the United States; and

**WHEREAS**, OSAKA UNIVERSITY, a University under and pursuant to the laws of Japan having its principal place at 1-1, Yamadaoka, Suita-shi, Osaka 5650871 JAPAN (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does 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 application for Letters Patent, 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 therefor 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 Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

**AND** for the same consideration, Assignor hereby represents and warrants 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, Assignor is the sole and lawful owner of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor 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 Letters Patent and applications for Letters 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 Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters 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 Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignor hereby requests 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** Assignor hereby grants 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 WILDMAN PALMER LLP

All practitioners at Customer Number 21874

AND Assignor acknowledges an obligation of assignment of this invention to  
Assignee at the time the invention was made.

Date: 3 June 2013 Signature: Masateru Taniguchi  
Masateru TANIGUCHI

Date: 31 May 2013 Signature: Makusu Tsutsui  
Makusu TSUTSUI

Date: 3 June 2013 Signature: Kazumichi Yokota  
Kazumichi YOKOTA

Date: 31 May 2013 Signature: Tomoji Kawai  
Tomoji KAWAI