

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shigeru Kawano</td> <td>08/18/2009</td> </tr> <tr> <td>Takeru Ishige</td> <td>08/18/2009</td> </tr> <tr> <td>Keita Iguchi</td> <td>08/18/2009</td> </tr> <tr> <td>Tozo Nishiyama</td> <td>08/18/2009</td> </tr> <tr> <td>Yoshihiko Yasohara</td> <td>08/18/2009</td> </tr> </tbody> </table>		Name	Execution Date	Shigeru Kawano	08/18/2009	Takeru Ishige	08/18/2009	Keita Iguchi	08/18/2009	Tozo Nishiyama	08/18/2009	Yoshihiko Yasohara	08/18/2009
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Kaneka Corporation</td> </tr> <tr> <td>Street Address:</td> <td>2-4, Nakanoshima 3-chome, Kita-ku,</td> </tr> <tr> <td>City:</td> <td>Osaka-shi Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>530-8288</td> </tr> </table>		Name:	Kaneka Corporation	Street Address:	2-4, Nakanoshima 3-chome, Kita-ku,	City:	Osaka-shi Osaka	State/Country:	JAPAN	Postal Code:	530-8288		
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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (202)293-6229</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: prollins-butler@cblh.com</p> <p>Correspondent Name: Connolly Bove Lodge &amp; Hutz LLP</p> <p>Address Line 1: 1875 Eye Street N.W.</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20006</p>													
ATTORNEY DOCKET NUMBER:	21581-00485-US												
NAME OF SUBMITTER:	Burton A. Amernick												
Total Attachments: 3													

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**PATENT**  
**REEL: 023161 FRAME: 0586**

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## ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Shigeru Kawano, located c/o KANEKA CORPORATION, 1-8, Takasagocho Miyamaecho, Takasago-shi, Hyogo 6768688 JAPAN; Takeru Ishige, located c/o KANEKA CORPORATION, 1-8, Takasagocho Miyamaecho, Takasago-shi, Hyogo 6768688 JAPAN; Keita Iguchi, located c/o KANEKA CORPORATION, 1-8, Takasagocho Miyamaecho, Takasago-shi, Hyogo 6768688 JAPAN; Tozo Nishiyama, located c/o KANEKA CORPORATION, 1-8, Takasagocho Miyamaecho, Takasago-shi, Hyogo 6768688 JAPAN; and Yoshihiko Yasohara, located c/o KANEKA CORPORATION, 1-8, Takasagocho Miyamaecho, Takasago-shi, Hyogo 6768688 JAPAN (hereinafter referred to as Assignors).

WHEREAS, Assignors have invented certain new and useful improvements in NOVEL ALCOHOL DEHYDROGENASE, GENE FOR THE ALCOHOL DEHYDROGENASE, VECTOR, TRANSFORMANT, AND METHOD FOR PRODUCTION OF OPTICALLY ACTIVE ALCOHOL BY USING THEM, set forth in a Patent application for which an International Application was filed on November 27, 2007, PCT/JP2007/072813, designating the United States; and

WHEREAS, KANEKA CORPORATION, a Corporation organized under and pursuant to the laws of Japan having its principal place of business at 2-4, Nakanoshima 3-chome, Kita-ku, Osaka-shi Osaka, 530-8288, 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, 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 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 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 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 application for Letters Patent 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 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 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 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:

CONNOLLY BOVE LODGE & HUTZ LLP

All practitioners at Customer Number 30678

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

Date: AUG. 18. 2009

Signature: Shigeru Kawano  
Shigeru Kawano

Date: AUG. 18. 2009

Signature: Takeru Ishige  
Takeru Ishige

Date: AUG. 18. 2009

Signature: Keita Iguchi  
Keita Iguchi

Date: AUG. 18. 2009

Signature: Tozo Nishiyama  
Tozo Nishiyama

Date: AUG. 18. 2009

Signature: Yoshihiko Yasohara  
Yoshihiko Yasohara