

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Hiroshi KAWAMINAMI | 11/20/2007 |
| Yuji TSUJI | 11/20/2007 |
| Masao KITABAYASHI | 11/20/2007 |
| Yoshiaki NISHIYA | 11/20/2007 |
| RECEIVING PARTY DATA | |
| Name: | Toyo Boseki Kabushiki Kaisha |
| Street Address: | 2-8, Dojima Hama 2-chome, Kita-ku |
| City: | Osaka-shi, Osaka |
| State/Country: | JAPAN |
| Postal Code: | 530-8230 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 11939348 |
| CORRESPONDENCE DATA | |
| Fax Number: | (312)616-5700 |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
| Phone: | (312) 616-5600 |
| Email: | assignments@leydig.com |
| Correspondent Name: | John Kilyk, Jr. |
| Address Line 1: | Leydig, Voit & Mayer, Ltd. |
| Address Line 2: | Two Prudential Plaza, Suite 4900 |
| Address Line 4: | Chicago, ILLINOIS 60601-6731 |
| ATTORNEY DOCKET NUMBER: | 702253 |
| NAME OF SUBMITTER: | John Kilyk, Jr. |

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Total Attachments: 3

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ASSIGNMENT

WHEREAS, WE, 1) Hiroshi KAWAMINAMI, 2) Yuji TSUJI, 3) Masao KITABAYASHI, and 4) Yoshiaki NISHIYA, of 1)-4) c/o Tsuruga Institute of Biotechnology of TOYO BOSEKI KABUSHIKI KAISHA, 10-24, Toyo-cho, Tsuruga-shi, Fukui 9140047, Japan, respectively, have invented and own a certain invention entitled:

MODIFIED FLAVIN ADENINE DINUCLEOTIDE DEPENDENT GLUCOSE

for which invention we have executed an application (provisional or non-provisional) for a United States patent, which was filed on November 13, 2007, under Serial No. 11/939348, and

WHEREAS, TOYOBOSEKI KABUSHIKI KAISHA, of 2-8, Dojima Hama 2-chome, Kita-ku, Osaka-shi, Osaka 5308230, Japan (hereinafter referred to as Assignee), is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the United States and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, renewals, and extensions) that may be filed in the United States and every foreign country on the invention, and the patents or extensions thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue United States patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

WE HEREBY AUTHORIZE the Assignee to insert in this assignment document the filing date and serial number of the application if the date and number are unavailable at the time this document is executed.

UPON SAID CONSIDERATION, we convey to the Assignee the right to make application in its own behalf for protection of the invention in countries foreign to the United States and to claim under the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, renewal, or extended patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date November 20, 2007

Hiroshi Kawaminami
Hiroshi KAWAMINAMI

Date November 20, 2007

Witness Keiichi Majima

Date November 20, 2007

Witness Yasushi Yamada

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Date November 20, 2007

Yuji Tsuji
Yuji TSUJI

Date November 20, 2007

Witness Keiichi Majima

Date November 20, 2007

Witness Yasushi Yamada

=====

Date November 20, 2007

Masao Kitabayashi
Masao KITABAYASHI

Date November 20, 2007

Witness Keiichi Majima

Date November 20, 2007

Witness Yasushi Yamada

=====

Date November 20, 2007

Yoshiaki Nishiyama
Yoshiaki NISHIYAMA

Date November 20, 2007

Witness Keiichi Majima

Date November 20, 2007

Witness Yasushi Yamada

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Date _____

Date _____

Witness _____

Date _____

Witness _____

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