

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>Tetsuro Ujihara</td> <td>08/02/2013</td> </tr> <tr> <td>Tetsuya Abe</td> <td>08/02/2013</td> </tr> <tr> <td>Makoto Yagasaki</td> <td>08/02/2013</td> </tr> </tbody> </table>		Name	Execution Date	Tetsuro Ujihara	08/02/2013	Tetsuya Abe	08/02/2013	Makoto Yagasaki	08/02/2013		
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<table border="1"> <tr> <td>Name:</td> <td>Kyowa Hakko Bio Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>1-6-1, Ohtemachi</td> </tr> <tr> <td>City:</td> <td>Chiyoda-ku, Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>100-8185</td> </tr> </table>		Name:	Kyowa Hakko Bio Co., Ltd.	Street Address:	1-6-1, Ohtemachi	City:	Chiyoda-ku, Tokyo	State/Country:	JAPAN	Postal Code:	100-8185
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CORRESPONDENCE DATA											
Fax Number: 2122182200 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 2122182100 Email: acarle@fchs.com Correspondent Name: Fitzpatrick, Cella, Harper & Scinto Address Line 1: 1290 Avenue of the Americas Address Line 4: New York, NEW YORK 10104-3800											
ATTORNEY DOCKET NUMBER:	00766.000170.										
NAME OF SUBMITTER:	Lawrence S. Perry										
Signature:	/Lawrence S. Perry/										
Date:	08/06/2013										
Total Attachments: 1 source=Assignment00766000170#page1.tif											

OP \$40.00 13983917

ASSIGNMENT

FOR VALUE RECEIVED, WE,

- 1) Tetsuro UJIHARA, citizens of Japan, residing, respectively, at Ibaraki, Japan,
2) Tetsuya ABE, citizens of Japan, residing, respectively, at Yamaguchi, Japan,
and 3) Makoto YAGASAKI citizens of Japan, residing, respectively, at Tokyo, Japan

hereby sell, assign, transfer and convey unto

a corporation of KYOWA HAKKO BIO CO., LTD.

having a place of business at 1-6-1, Ohtemachi, Chiyoda-ku, Tokyo 100-8185 Japan

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for the United States, in and to certain inventions relating to

PROCESS FOR PRODUCING TARGET SUBSTANCE BY FERMENTATION PROCESS

and described in an application for Letters Patent of the United States by us on

and in and to said application, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States to issue all Letters Patent upon said inventions to the Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for patent or other form of protection for said inventions the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in the United States for any purpose and more particularly in proof of the right of said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND we hereby covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith..

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent protection for said inventions in the United States.

IN TESTIMONY WHEREOF, we hereunto set our hand and seal this 2nd day of August, 2013

Witness:

Assignors:

Tetsuro Ujihara L.S.
Tetsuro UJIHARA

Tetsuya Abe L.S.
Tetsuya ABE

Makoto Yagasaki L.S.
Makoto YAGASAKI

(Joint Inventors) (2/13/92)

Form #6