502044040 08/30/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mikiro HAYASHI	07/23/2012
Kazuhiko TABATA	07/31/2012
Yoshiyuki YONETANI	08/20/2012

RECEIVING PARTY DATA

Name:	Kyowa Hakko Bio Co., Ltd.	
Street Address:	1-6-1, Ohtemachi, Chiyoda-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	100-8185	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13520947

CORRESPONDENCE DATA

Fax Number: 3126165700 Phone: (312) 616-5600

Email: assignments@leydig.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

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: 710691

NAME OF SUBMITTER: John Kilyk, Jr.

Total Attachments: 3

source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif

> PATENT REEL: 028878 FRAME: 0315

:H \$40.00 13520947

PATENT Attorney Docket No. 710691 Client Reference No. 202521

Leydig, Voit & Mayer, Ltd. Two Prudential Plaza, Suite 4900 180 North Stetson Avenue Chicago, Illinois 60601-6731

ASSIGNMENT

WHEREAS, WE.

Mikiro HAYASHI of c/o Bioprocess Development Center, KYOWA HAKKO BIO CO., LTD., 2, Miyukigaoka, Tsukuba-shi, Ibaraki 305-0841 Japan, Kazuhiko TABATA of 10960 Ashton Avenue 405 Los Angeles CA 90024 USA and Yoshiyuki YONETANI of c/o Head Office, KYOWA HAKKO BIO CO., LTD., 1-6-1, Ohtemachi, Chiyoda-ku, Tokyo 100-8185 Japan

respectively, have invented and own a certain invention entitled:

PROCESS FOR PRODUCTION OF L-GLUTAMINE OR L-GLUTAMIC ACID

for which invention we have executed an application (provisional or non-provisional) for a United States patent, which was filed on July 6, 2012, under Application No. 13/520,947, and

WHEREAS, KYOWA HAKKO BIO CO., LTD. of 1-6-1, Ohtemachi, Chiyoda-ku, Tokyo 100-8185 Japan (hereinafter referred to as Assignee), is desirous of acquiring the entire 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 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, and reexaminations) that may be filed in the United States on the invention, and the patents or extensions thereof that may issue thereon, and we do hereby authorize and request the Commissioner for Patents 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 application number of the application if the date and number are unavailable at the time this document is executed.

Page 1 of 3 PATENT REEL: 028878 FRAME: 0316 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, or reexamined patents of the United States 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	July 23, 2012	m. Huyashi
***		Mikiro HAYASHI
Date	July 23, 2012	T. usinara
		Witness Tetsuro UJIHARA
Date	July 23, 2012	M. Nagano
_		Witness Megumi NAGANO
Date	July 31, 2012	K. Inthe
	•	Kazuhiko TABATA
Date _	July 31, 2012	P. Lan
Date _	July 31, 2012	P. Lan Witness Po-heng. Lin
-	July 31, 2012 July 31, 2012	P. Lan Witness Po-heng. Lin H. Ruh
-		P. Lan Witness Po-heng. Lin

In re Appln. of Hayashi et al. Attorney Docket No. 710691

Date	Aug 20 2012	your youlten
		Yoshiyuki YONÉTANI
Date _	August 20, 2012	Wings
		Witness Hirofumi ENDO
Date	August 20, 2012	AS savo
		Witness Akihiro SENCO

Page 3 of 3 **PATENT REEL: 028878 FRAME: 0318**

RECORDED: 08/30/2012