

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4477691

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YOJI ODERAOTOSHI	05/10/2017
TAKUHIRO IZUMI	05/10/2017
SHIGENOBU NISHIGUCHI	05/10/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TOWA PHARMACEUTICAL CO., LTD.
<b>Street Address:</b>	2-11, SHINBASHI-CHO, KADOMA-SHI,
<b>City:</b>	OSAKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	5718580
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15539849
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	SAK0003US
<b>NAME OF SUBMITTER:</b>	LESLIE-ANNE MAXWELL, REG. NO. 44778
<b>SIGNATURE:</b>	/Leslie-Anne Maxwell/
<b>DATE SIGNED:</b>	06/26/2017
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

WHEREAS each undersigned inventor,

1. Yoji Oderaotoshi
  2. Takuhiro Izumi
  3. Shigenobu Nishiguchi
- all of c/o TOWA PHARMACEUTICAL CO., LTD., 2-11, Shinbashi-cho,  
Kadoma-shi, Osaka 5718580, Japan

(hereinafter referred to collectively as "ASSIGNOR(S)") have invented certain new and useful improvement(s) in:

**METHOD FOR PRODUCING PROTON PUMP INHIBITOR COMPOUND HAVING  
OPTICAL ACTIVITY**

which claims priority to International Application No. PCT/JP2015/086163, filed December 25,  
2015,

and for which I am about to file or have filed an application for Letters Patent of the United  
States;

AND WHEREAS, **TOWA PHARMACEUTICAL CO., LTD.**, (hereinafter referred to "ASSIGNEE"), an organization established and existing under the laws of the Country of **Japan**, having a place of business at **2-11, Shinbashi-cho, Kadoma-shi, Osaka 5718580, Japan** is desirous of acquiring an interest in the United States and all foreign countries, in and to said invention and Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) have sold, assigned, and transferred, and hereby sell, assign, and transfer unto ASSIGNEE, the entire right, title, and interest, in and to the invention(s) in the United States and in all foreign countries, including all priority rights, and including all design, utility, revival, refiling, continuation, continuation-in-part, divisional, reexamination, and reissue application(s) therefore; and ASSIGNOR(S) do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent(s) that may be issued upon any of said application(s) to ASSIGNEE for the sole use and behalf of ASSIGNEE, its successors, and assigns.

ASSIGNOR(S) hereby warrant and covenant that ASSIGNOR(S) have the full and unencumbered right to sell, transfer, and assign, the interests hereby sold, transferred, and assigned, and that I have not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR(S) further covenant and agree that upon the request and at the expense of the ASSIGNEE, its successors, or assigns, will fully assist and cooperate in all matters in connection with the United States and foreign application(s) and patent(s) issuing thereon,

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including execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said invention(s) and improvement(s), communicate to the ASSIGNEE all facts known me relating to such invention(s) and improvement(s) and the history thereof; and perform all other lawful acts deemed necessary or desirable by ASSIGNEE, or its legal representatives, to secure, maintain, and enforce patent protection for such invention(s) and improvement(s) and for vesting title to such invention(s) and improvement(s) in ASSIGNEE, and in particular to perfect title to said invention(s), said application(s), and said patent(s).

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

I hereby grant ASSIGNEE and the firm of Cantor Colburn LLP the power to insert in this Assignment any further identification which may be necessary or desirable for recordation of this Assignment.

SAK0003US

Date: May 10, 2017 Yoji Oderaotoshi  
Yoji Oderaotoshi

On this 10<sup>th</sup> day of May, 2017, before me, personally appeared Yoji Oderaotoshi, known or satisfactorily proven to me to be the person of whose name is subscribed to this instrument, who acknowledged that he executed the same for the purposes therein contained.

Date: May 10, 2017 y. Yoshida  
Witness Signature

Date: May 10, 2017 T. Izumi  
Takuhiro Izumi

On this 10<sup>th</sup> day of May, 2017, before me, personally appeared Takuhiro Izumi, known or satisfactorily proven to me to be the person of whose name is subscribed to this instrument, who acknowledged that he executed the same for the purposes therein contained.

Date: May 10, 2017 y. Yoshida  
Witness Signature

Date: May 10, 2017 S. Nishiguchi  
Shigenobu Nishiguchi

On this 10<sup>th</sup> day of May, 2017, before me, personally appeared Shigenobu Nishiguchi, known or satisfactorily proven to me to be the person of whose name is subscribed to this instrument, who acknowledged that he executed the same for the purposes therein contained.

Date: May 10, 2017 y. Yoshida  
Witness Signature

TOWA PHARMACEUTICAL CO., LTD. hereby acknowledges and accepts this Assignment.

For Assignee: TOWA PHARMACEUTICAL CO., LTD.

By: Itsuro Yoshida  
Name: Itsuro Yoshida  
Title: President  
Date: May 18, 2017