

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4032839

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TAKAHIRO SUGIMOTO	07/06/2016
SHINKICHI SUZUKI	07/06/2016
HIROKI SAKAMOTO	07/06/2016
MASAMI YAMADA	07/06/2016
MINORU NAKAMURA	07/06/2016
MAKOTO KAMATA	07/06/2016
KENICHIRO SHIMOKAWA	07/06/2016
MASAKI OGINO	07/06/2016
EIJI KIMURA	07/06/2016
MASATAKA MURAKAMI	07/06/2016
JINICHI YONEMORI	07/06/2016
TAKUTO KOJIMA	07/06/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TAKEDA PHARMACEUTICAL COMPANY LIMITED
<b>Street Address:</b>	1-1, DOSHOMACHI 4-CHOME, CHUO-KU
<b>City:</b>	OSAKA-SHI, OSAKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	541-0045
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15190642
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(612)455-3801
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	612-455-3800
<b>Email:</b>	pkerkhove@hsml.com
<b>Correspondent Name:</b>	HAMRE, SCHUMANN, MUELLER & LARSON, P.C.
<b>Address Line 1:</b>	45 S. 7TH STREET, STE. 2700
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402

PATENT

<b>ATTORNEY DOCKET NUMBER:</b>	20039.0084US01
<b>NAME OF SUBMITTER:</b>	DOUGLAS P. MUELLER
<b>SIGNATURE:</b>	/douglas p. mueller/
<b>DATE SIGNED:</b>	08/31/2016
<b>Total Attachments: 3</b> source=Assignment_0024#page1.tif source=Assignment_0024#page2.tif source=Assignment_0024#page3.tif	

Docket No.

## ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

1. Takahiro SUGIMOTO residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
2. Shinkichi SUZUKI residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
3. Hiroki SAKAMOTO residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
4. Masami YAMADA residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
5. Minoru NAKAMURA residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
6. Makoto KAMATA residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
7. Kenichiro SHIMOKAWA residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
8. Masaki OGINO residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
9. Eiji KIMURA residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
10. Masataka MURAKAMI residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
11. Jinichi YONEMORI residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan
12. Takuto KOJIMA residing at c/o Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-0012 Japan and a citizen of Japan

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on

June 23, 2016, entitled HETEROCYCLIC COMPOUND, and which has been given application serial number 15/190,642 ;

and

WHEREAS Takeda Pharmaceutical Company Limited (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEE, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for said invention to the ASSIGNEE of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Takahiro Sugimoto

1. Signature Takahiro SUGIMOTO

July 6th, 2016

Date

Shinkichi Suzuki  
2. Signature Shinkichi SUZUKI  
Date July 6, 2016

Hiroki Sakamoto  
3. Signature Hiroki SAKAMOTO  
Date July 6, 2016

Masami Yamada  
4. Signature Masami YAMADA  
Date July 6, 2016

Minoru Nakamura  
5. Signature Minoru NAKAMURA  
Date July 6, 2016

Makoto Kamata  
6. Signature Makoto KAMATA  
Date July 6, 2016

Kenichiro Shimokawa  
7. Signature Kenichiro SHIMOKAWA  
Date July 6, 2016

Masaki Oginno  
8. Signature Masaki OGINO  
Date July 6, 2016

Eiji Kimura  
9. Signature Eiji KIMURA  
Date July 6, 2016

Masataka Murakami  
10. Signature Masataka MURAKAMI  
Date July 6, 2016

Jinichi Yonemori  
11. Signature Jinichi YONEMORI  
Date July 6, 2016

Takuto Kojima  
12. Signature Takuto KOJIMA  
Date July 6, 2016

Signatures of two witnesses:

Misa Kiyohara  
1. Misa KIOHARA  
Date July 6, 2016

Yoko Yoneyama  
2. Yoko YONEYAMA  
Date July 6, 2016