

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4338826

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SATOSHI YAMAMOTO	03/08/2017
JUNYA SHIRAI	03/08/2017
TSUNEO ODA	03/08/2017
TAKASHI IMADA	03/08/2017
mitsunori KONO	03/08/2017
AYUMU SATO	03/02/2017
YOSHIHIDE TOMATA	03/08/2017
ATSUKO OCHIDA	03/08/2017
NAOKI ISHII	03/08/2017
YUSUKE SASAKI	03/02/2017
YOSHIYUKI FUKASE	02/27/2017
TOMOYA YUKAWA	03/08/2017
SHOJI FUKUMOTO	03/06/2017

RECEIVING PARTY DATA

Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED
Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU, OSAKA-SHI
City:	OSAKA
State/Country:	JAPAN
Postal Code:	541-0045

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15510225

CORRESPONDENCE DATA

Fax Number: (312)222-0818

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.

Phone: (312) 222-0800

Email: chiipdocket@michaelbest.com

Correspondent Name: LISA V. MUELLER

Address Line 1: 444 W. LAKE STREET

PATENT

Address Line 2: SUITE 3200
Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER: 029998-1170-US01

NAME OF SUBMITTER: LISA V. MUELLER

SIGNATURE: /Lisa V. Mueller/

DATE SIGNED: 03/27/2017

Total Attachments: 18

source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page1.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page2.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page3.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page4.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page5.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page6.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page7.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page8.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page9.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page10.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page11.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page12.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page13.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page14.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page15.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page16.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page17.tif
source=203197-PCT-US-029998-1170-US01-ASSIGNMENT-TPC-03-27-17#page18.tif

ASSIGNMENT

WHEREAS, Satoshi YAMAMOTO, Junya SHIRAI, Tsuneo ODA, Takashi IMADA, Mitsunori KONO, Ayumu SATO, Yoshihide TOMATA, Atsuko OCHIDA, Naoki ISHII, Yusuke SASAKI, Yoshiyuki FUKASE, Tomoya YUKAWA and Shoji FUKUMOTO, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "HETEROCYCLIC COMPOUND" that has a U.S. Patent Application Number of 15/510,225, filed on March 9, 2017.

WHEREAS, Takeda Pharmaceutical Company Limited, a corporation, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

Date March 8, 2017 Satoshi Yamamoto
Assignor: Satoshi YAMAMOTO

Date March 8, 2017 Yoko Yoneyama
Witness: Yoko YONEYAMA

Date March 8, 2017 Misa Kiyohara
Witness: Misa KIYOHARA

=====

Date March 8, 2017 Junya Shirai
Assignor: Junya SHIRAI

Date March 8, 2017 Yoko Yoneyama
Witness: Yoko YONEYAMA

Date March 8, 2017 Misa Kiyohara
Witness: Misa KIYOHARA

=====

Date March 8, 2017 Tsuneo Oda
Assignor: Tsuneo ODA

Date March 8, 2017 Yoko Yoneyama
Witness: Yoko YONEYAMA

Date March 8, 2017 Misa Kiyohara
Witness: Misa KIYOHARA

=====

Date March 8, 2017 Takashi Imada
Assignor: Takashi IMADA

Date March 8, 2017 Yoko Yoneyama
Witness: Yoko YONEYAMA

Date March 8, 2017 Misa Kiyohara
Witness: Misa KIYOHARA

Date March 8, 2017 Mitsunori Kono
Assignor: Mitsunori KONO

Date March 8, 2017 Yoko Yoneyama
Witness: Yoko YONEYAMA

Date March 8, 2017 Misa Kiyohara
Witness: Misa KIYOHARA

Date _____ Ayumu SATO
Assignor: Ayumu SATO

Date _____
Witness: _____

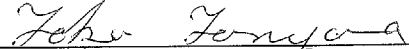
Date _____
Witness: _____



Date March 8, 2017

Assignor: Yoshihide TOMATA

Date March 8, 2017



Witness: Yoko YONEYAMA

Date March 8, 2017



Witness: Misa KIYOHARA

=====

Date March 8, 2017


Assignor: Atsuko OCHIDA

Date March 8, 2017


Witness: Yoko YONEYAMA

Date March 8, 2017



Witness: Misa KIYOHARA

=====

Date March 8, 2017


Assignor: Naoki ISHII

Date March 8, 2017


Witness: Yoko YONEYAMA

Date March 8, 2017


Witness: Misa KIYOHARA

=====

Date _____

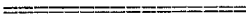
Assignor: Yusuke SASAKI

Date _____

Witness: _____

Date _____

Witness: _____



Date February 27, 2017

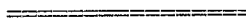
Yoshiyuki Fukase
Assignor: Yoshiyuki FUKASE

Date February 27, 2017

N. Now
Witness: Naoyoshi NOGUCHI

Date February 27, 2017

Takafumi Yukawa
Witness: Takafumi YUKAWA



Date March 8, 2017

Tomoya Yukawa
Assignor: Tomoya YUKAWA

Date March 8, 2017

Yoko Yoneyama
Witness: Yoko YONEYAMA

Date March 8, 2017

Misa Kiyohara
Witness: Misa KIYOHARA



Date _____

Assignor: Shoji FUKUMOTO

Date _____

Witness:

Date _____

Witness:

=====

ASSIGNMENT

WHEREAS, Satoshi YAMAMOTO, Junya SHIRAI, Tsuneo ODA, Takashi IMADA, Mitsunori KONO, Ayumu SATO, Yoshihide TOMATA, Atsuko OCHIDA, Naoki ISHII, Yusuke SASAKI, Yoshiyuki FUKASE, Tomoya YUKAWA and Shoji FUKUMOTO, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "HETEROCYCLIC COMPOUND" that has a U.S. Patent Application Number of 15/510,225, filed on March 9, 2017.

WHEREAS, Takeda Pharmaceutical Company Limited, a corporation, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

Date _____ Assignor: Satoshi YAMAMOTO

Date _____ Witness: _____

Date _____ Witness: _____

=====

Date _____ Assignor: Junya SHIRAI

Date _____ Witness: _____

Date _____ Witness: _____

=====

Date _____ Assignor: Tsuneo ODA

Date _____ Witness: _____

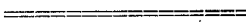
Date _____ Witness: _____

=====

Date _____ Assignor: Takashi IMADA

Date _____ Witness:

Date _____ Witness:



Date _____ Assignor: Mitsunori KONO

Date _____ Witness:

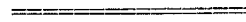
Date _____ Witness:



Date March 2, 2017 Assignor: Ayumu SATO
Ayumu SATO

Date March 2, 2017 Witness: Haruki Takahagi
Haruki Takahagi

Date March 2, 2017 Witness: Toshihiro Imaeda
Toshihiro Imaeda



Date _____
Assignor: Yoshihide TOMATA

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date _____
Assignor: Atsuko OCHIDA

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date _____
Assignor: Naoki ISHII

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date March 2 2017

Yusuke Sasaki
Assignor: Yusuke SASAKI

Date March 2, 2017

Toshihiro Imaeda
Witness: Toshihiro IMAEDA

Date March 2, 2017

Akihiro Takahagi
Witness: Akihiro Takahagi

=====

Date _____

Assignor: Yoshiyuki FUKASE

Date _____

Witness: _____

Date _____

Witness: _____

=====

Date _____

Assignor: Tomoya YUKAWA

Date _____

Witness: _____

Date _____

Witness: _____

=====

Date _____

Assignor: Shoji FUKUMOTO

Date _____

Witness:

Date _____

Witness:

=====

ASSIGNMENT

WHEREAS, Satoshi YAMAMOTO, Junya SHIRAI, Tsuneo ODA, Takashi IMADA, Mitsunori KONO, Ayumu SATO, Yoshihide TOMATA, Atsuko OCHIDA, Naoki ISHII, Yusuke SASAKI, Yoshiyuki FUKASE, Tomoya YUKAWA and Shoji FUKUMOTO, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "HETEROCYCLIC COMPOUND" that has a U.S. Patent Application Number of 15/510,225, filed on March 9, 2017.

WHEREAS, Takeda Pharmaceutical Company Limited, a corporation, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

Date _____ Assignor: Satoshi YAMAMOTO

Date _____ Witness:

Date _____ Witness:

=====

Date _____ Assignor: Junya SHIRAI

Date _____ Witness:

Date _____ Witness:

=====

Date _____ Assignor: Tsuneo ODA

Date _____ Witness:

Date _____ Witness:

=====

Date _____
Assignor: Takashi IMADA

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date _____
Assignor: Mitsunori KONO

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date _____
Assignor: Ayumu SATO

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date _____
Assignor: Yoshihide TOMATA

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date _____
Assignor: Atsuko OCHIDA

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date _____
Assignor: Naoki ISHII

Date _____
Witness: _____

Date _____
Witness: _____

=====

Date _____
Assignor: Yusuke SASAKI

Date _____
Witness:

Date _____
Witness:

=====

Date _____
Assignor: Yoshiyuki FUKASE

Date _____
Witness:

Date _____
Witness:

=====

Date _____
Assignor: Tomoya YUKAWA

Date _____
Witness:

Date _____
Witness:

=====

Date March. 6. 2017

Shoji Fukumoto
Assignor: Shoji FUKUMOTO

Date March. 6. 2017

Yoshie Fukumoto
Witness: Yoshie FUKUMOTO

Date March. 6, 2017

Yusuke Ohba
Witness: Yusuke OHBA

=====