504844041 03/29/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4890778

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
	Name	Execution Date	
NORIKAZU OTAKE		02/14/2018	
DAISUKE MATSUDA		02/14/2018	
RIE SHIMONO		02/14/2018	
HIDEAKI TABUSE		02/14/2018	
MINORU MORIYA		02/14/2018	
YOHEI KOBASHI		02/14/2018	
YOHEI MATSUDA		02/14/2018	
ΤΟΜΟΚΑΖU ΤΑΜΑΟΚΙ		02/14/2018	

RECEIVING PARTY DATA

TAISHO PHARMACEUTICAL CO., LTD.		
24-1, TAKADA 3-CHOME, TOSHIMA-KU		
ТОКҮО		
JAPAN		
170-8633		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15764598

CORRESPONDENCE DATA

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NAME OF SUBMITTER:		B.CARSON		
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DATE SIGNED:	03/29/2018
Total Attachments: 3	
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source=ASSIGNMENT#page3.tif	

ASSIGNMENT (U.S. Rights Only) Attorney Docket No.

ASSIGNMENT

WHEREAS I/We are the below-named inventor(s) (hereinafter referred to as Assignor(s)) of an invention entitled:

METHOD FOR PRODUCING OPTICALLY ACTIVE 2-(2-FLUOROBIPHENYL-4-YL) PROPANOIC ACID

as disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date

WHEREAS, TAISHO PHARMACEUTICAL CO., LTD., a corporation of Japan whose post office address is 24-1, Takada 3-chome, Toshima-ku, Tokyo 170-8633 Japan (hereinafter referred to as Assignee), desires to own the entire right, title, and interest in and to this invention in the United States, any and all application(s) for United States Patent(s) filed on this invention, and any and all Letters Patent to be issued upon such filed application(s);

NOW THEREFORE, be it known that, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, interest in and to this invention in the United States, any and all application(s) for United States Patent(s) filed on this invention, including any provisional applications, non-provisional applications, continuations, divisionals, or continuations-in-part that disclose the invention, and any and all Letters Patent to be issued upon such filed application(s), including any reissues thereof;

AND, I/WE covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment.

AND, I/WE authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced application(s) when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

ASSIGNMENT (U.S. Rights Only) Attorney Docket No.

ASSIGNOR (Inventor) 1

Novikatu Otake

Signature

Norikazu OTAKE

Print Name

February 14, 2018

Execution Date

ASSIGNOR (Inventor) 2 Daisuke Matsuda Signature Daisuke MATSUDA

Print Name

February 14, 2018

Execution Date

ASSIGNOR (Inventor) 3

<u> </u>	Shim	<u>ona</u>		
Signature				
<u>Rie SHIMC</u>	NO			
Print Name)			
Feb	ruary	14,	2018	

Execution Date

ASSIGNOR (Inventor) 4

Hideaki Tabuse

Signature

Hideaki TABUSE

Print Name

February 14, 2018

Execution Date

Page 2 of 3

PATENT REEL: 045387 FRAME: 0911

ASSIGNMENT (U.S. Rights Only)

Attorney Docket No.

ASSIGNOR (Inventor) 5

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Minoru MORIYA

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February 14, 2018

Execution Date

ASSIGNOR (Inventor) 6

Yohei Kobashi

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Yohei KOBASHI

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February 14, 2018

Execution Date

ASSIGNOR (Inventor) 7 Yala: Matalada. Signature Yohei MATSUDA Print Name February 14, 2018

Execution Date

ASSIGNOR (Inventor) 8 Tomokazu TAMAOKI Signature Tomokazu TAMAOKI Print Name February 14, 2018

Execution Date

Page 3 of 3

PATENT REEL: 045387 FRAME: 0912

RECORDED: 03/29/2018