

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>KOICHI SHINHAMA</td> <td>12/20/2013</td> </tr> <tr> <td>NAOTO UTSUMI</td> <td>12/19/2013</td> </tr> <tr> <td>MASAHIRO SOTA</td> <td>12/17/2013</td> </tr> <tr> <td>SHIGEO FUJIEDA</td> <td>12/26/2013</td> </tr> <tr> <td>SHIN OGASAWARA</td> <td>12/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	KOICHI SHINHAMA	12/20/2013	NAOTO UTSUMI	12/19/2013	MASAHIRO SOTA	12/17/2013	SHIGEO FUJIEDA	12/26/2013	SHIN OGASAWARA	12/18/2013
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SHIN OGASAWARA	12/18/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>OTSUKA PHARMACEUTICAL CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>9, KANDA-TSUKASAMACHI, 2-CHOME, CHIYODA-KU</td> </tr> <tr> <td>City:</td> <td>TOKYO</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>1018535</td> </tr> </table>		Name:	OTSUKA PHARMACEUTICAL CO., LTD.	Street Address:	9, KANDA-TSUKASAMACHI, 2-CHOME, CHIYODA-KU	City:	TOKYO	State/Country:	JAPAN	Postal Code:	1018535		
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Application Number:	14235635												
CORRESPONDENCE DATA													
Fax Number:	(202)408-4400												
Phone:	2024084000												
Email:	bernie.carson@finnegan.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	FINNEGAN												
Address Line 1:	901 NEW YORK AVENUE, NW												
Address Line 4:	WASHINGTON, DC, DISTRICT OF COLUMBIA 20001												
ATTORNEY DOCKET NUMBER:	04676.0315												
NAME OF SUBMITTER:	B.CARSON												

Signature:	/B.CARSON/
Date:	01/31/2014
Total Attachments: 6 source=assignment#page1.tif source=assignment#page2.tif source=assignment#page3.tif source=assignment#page4.tif source=assignment#page5.tif source=assignment#page6.tif	

JOINT INVENTION
(U.S. Rights Only)

ASSIGNMENT

WHEREAS, We, the below named inventors, (hereinafter referred to as assignors, have made an invention entitled:

METHOD FOR PRODUCING BENZO[B]THIOPHENE COMPOUND

for which we executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on _____ (Application No. _____); and

WHEREAS, **OTSUKA PHARMACEUTICAL CO., LTD.**, a corporation of Japan, whose post office address is **9, Kanda-Tsukasamachi 2-chome, Chiyoda-ku, Tokyo 1018535, Japan** (hereinafter referred to as assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

14/235,635 filed January 28, 2014

First Assignor

Assignor Name: **Koichi SHINHAMA**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: Koichi Shinham

Date: Dec. 20, 2013

Second Assignor

Assignor Name: **Naoto UTSUMI**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: _____

Date: _____

Third Assignor

Assignor Name: **Masahiro SOTA**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: Masahiro Sota

Date: Dec. 17, 2013

Fourth Assignor

Assignor Name: **Shigeo FUJIEDA**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: Shigeo Fujieda

Date: Dec. 26, 2013

Fifth Assignor

Assignor Name: **Shin OGASAWARA**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: Shin Ogawara

Date: Dec. 18. 2013

Attorney Docket No.:

JOINT INVENTION
(U.S. Rights Only)

ASSIGNMENT

WHEREAS, We, the below named inventors, (hereinafter referred to as assignors, have made an invention entitled:

METHOD FOR PRODUCING BENZO[B]THIOPHENE COMPOUND

for which we executed an application for United States Letters Patent concurrently herewith or on or filed an application for United States Letters Patent on (Application No.); and

WHEREAS, OTSUKA PHARMACEUTICAL CO., LTD., a corporation of Japan, whose post office address is 9, Kanda-Tsukasamachi 2-chome, Chiyoda-ku, Tokyo 1018535, Japan (hereinafter referred to as assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

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IN TESTIMONY WHEREOF, we have hereunto set our hands.

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Attorney Docket No.:

First Assignor

Assignor Name: **Koichi SHINHAMA**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: _____

Date: _____

Second Assignor

Assignor Name: **Naoto UTSUMI**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: Naoto Utsumi

Date: Dec. 19, 2013

Third Assignor

Assignor Name: **Masahiro SOTA**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: _____

Date: _____

Fourth Assignor

Assignor Name: **Shigeo FUJIEDA**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: _____

Date: _____

Attorney Docket No.:

Fifth Assignor

Assignor Name: **Shin OGASAWARA**

Assignor Address: c/o OTSUKA PHARMACEUTICAL CO., LTD., 1-7-1, Doshomachi,
Chuo-ku, Osaka-shi, Osaka 5410045, Japan

Citizenship: Japan

Signature: _____

Date: _____