

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3054751

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BENJAMIN JONES	01/11/2011
BETTY LAM	01/05/2011
CHRISTOPHER SMITH	01/06/2011
MASASHI TAKAHASHI	01/12/2011
QING DONG	12/28/2010
VICTORIA FEHER	12/29/2010
ZHE NIE	10/27/2010
YASUYOSHI ARIKAWA	01/12/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TAKEDA SAN DIEGO, INC.
<b>Street Address:</b>	10410 SCIENCE CENTER DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	13886032
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(858)550-0992
<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>	(858) 622-8528
<b>Email:</b>	tsd.docket@takedasd.com
<b>Correspondent Name:</b>	TAKEDA CALIFORNIA, INC.
<b>Address Line 1:</b>	10410 SCIENCE CENTER DRIVE
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92121
<b>ATTORNEY DOCKET NUMBER:</b>	SYK-5002-US-D1
<b>NAME OF SUBMITTER:</b>	MATTHEW J. RUSSO
<b>SIGNATURE:</b>	/Matthew J. Russo/
<b>DATE SIGNED:</b>	10/07/2014

PATENT

**Total Attachments: 12**

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source=SYK-5002-US\_Assignment\_06\_Takahashi-TSD#page2.tif

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I, ZHE NIE, a citizen of China (hereinafter referred to as "ASSIGNOR"), have invented a certain invention entitled FUSED HETEROAROMATIC PYRROLIDINONES for which an application for Letters Patent of the United States of America has been filed with the U.S. Patent and Trademark Office on December 17, 2010, and assigned Application Serial No. 12/972,333; and

WHEREAS, **TAKEDA SAN DIEGO, INC.**, a corporation organized and existing under and by virtue of the laws of the **State of Delaware** and having its place of business at **10410 Science Center Drive, San Diego, California 92121** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and ASSIGNOR hereby authorize and request the United States Commissioner of Patents and Trademarks and any officials of foreign countries whose duty it is to issue patents or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNOR hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement.

ASSIGNOR further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

WITNESS my hand at San Diego, California, this 27th day of October, 2010.

  
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ZHE NIE

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I, VICTORIA FEHER, a citizen of United States of America (hereinafter referred to as "ASSIGNOR"), have invented a certain invention entitled FUSED HETEROAROMATIC PYRROLIDINONES for which an application for Letters Patent of the United States of America has been filed with the U.S. Patent and Trademark Office on December 17, 2010 and assigned Application Serial No. 12/972,333; and

WHEREAS, **TAKEDA SAN DIEGO, INC.**, a corporation organized and existing under and by virtue of the laws of the **State of Delaware** and having its place of business at **10410 Science Center Drive, San Diego, California 92121** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

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WITNESS my hand at Mammoth Lakes, CA, this 29 day of December, 2010.

  
VICTORIA FEHER

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I, QING DONG, a citizen of United States of America (hereinafter referred to as "ASSIGNOR"), have invented a certain invention entitled FUSED HETEROAROMATIC PYRROLIDINONES for which an application for Letters Patent of the United States of America has been filed with the U.S. Patent and Trademark Office on December 17, 2010, and assigned Application Serial No. 12/972,333; and

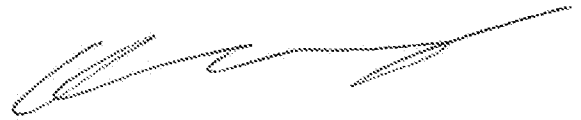
WHEREAS, **TAKEDA SAN DIEGO, INC.**, a corporation organized and existing under and by virtue of the laws of the **State of Delaware** and having its place of business at **10410 Science Center Drive, San Diego, California 92121** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

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WITNESS my hand at Shanghai, China, this 28<sup>th</sup> day of December, 2010.



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QING DONG



ASSIGNMENT OF PATENT APPLICATION

WHEREAS, WE, BENJAMIN JONES, a citizen of United States of America, BETTY LAM, a citizen of United States of America, and CHRISTOPHER SMITH, a citizen of Great Britten (hereinafter referred to as "ASSIGNORS"), have invented a certain invention entitled FUSED HETEROAROMATIC PYRROLIDINONES for which an application for Letters Patent of the United States of America has been filed with the U.S. Patent and Trademark Office on December 17, 2010 and assigned Application Serial No. 12/972,333; and

WHEREAS, **TAKEDA SAN DIEGO, INC.**, a corporation organized and existing under and by virtue of the laws of the **State of Delaware** and having its place of business at **10410 Science Center Drive, San Diego, California 92121** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and ASSIGNORS hereby authorize and request the United States Commissioner of Patents and Trademarks and any officials of foreign countries whose duty it is to issue patents or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

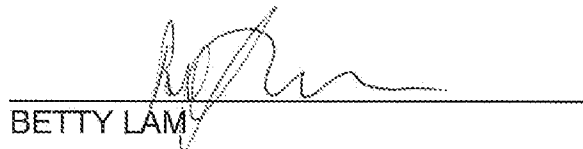
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WITNESS my hand at San Diego, California, this 11 day of January, 2011.

  
BENJAMIN JONES

WITNESS my hand at San Diego, California, this 5 day of January, 2011.

  
BETTY LAM

WITNESS my hand at San Diego, California, this 6 day of January, 2011.

  
CHRISTOPHER SMITH

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I, YASUYOSHI ARIKAWA, a citizen of Japan (hereinafter referred to as "ASSIGNOR"), have invented a certain invention entitled FUSED HETEROAROMATIC PYRROLIDINONES for which an application for Letters Patent of the United States of America has been filed with the U.S. Patent and Trademark Office on December 17, 2010, and assigned Application Serial No. 12/972,333; and

WHEREAS, **TAKEDA SAN DIEGO, INC.**, a corporation organized and existing under and by virtue of the laws of the **State of Delaware** and having its place of business at **10410 Science Center Drive, San Diego, California 92121** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

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WITNESS my hand at Osaka, Japan, this 12th day of January 2011.

  
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YASUYOSHI ARIKAWA

SYK-5002-US  
(3823USON)

Patent  
Docket No. SYK-5002-US

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I, MASASHI TAKAHASHI, a citizen of Japan (hereinafter referred to as "ASSIGNOR"), have invented a certain invention entitled FUSED HETEROAROMATIC PYRROLIDINONES for which an application for Letters Patent of the United States of America has been filed with the U.S. Patent and Trademark Office on December 17, 2010, and assigned Application Serial No. 12/972,333; and

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WITNESS my hand at Osaka, Japan, this 12<sup>th</sup> day of January 2011.

  
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MASASHI TAKAHASHI