

Form PTO-1595 (Rev. 06-12)
OMB No. 0651-0027 (exp. 04/30/2015)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Theravance, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) June 1, 2014

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)Name: Theravance Biopharma R&D IP, LLC

Internal Address: _____

Street Address: 901 Gateway BoulevardCity: South San FranciscoState: CaliforniaCountry: USA Zip: 94080Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

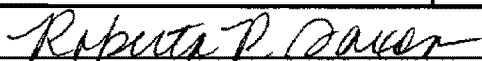
B. Patent No.(s)

60535784 and 13170386

7622467 and 7994165

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Jeffrey A. HagenahInternal Address: Patent Department
Theravance Biopharma US, Inc.Street Address: 901 Gateway BoulevardCity: South San FranciscoState: California Zip: 94080Phone Number: (650) 808-6406Docket Number: P-177Email Address: patent@theravance.com**6. Total number of applications and patents involved: 4****7. Total fee (37 CFR 1.21(h) & 3.41) \$ 160**

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment InformationDeposit Account Number 500344Authorized User Name Jeffrey A. Hagenah**9. Signature:**

Signature

June 6, 2014

Date

Roberta P. Saxon, Reg. No. 43,087

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
 Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

CH \$160.00 500344 60535784

Patent Assignment

WHEREAS, **Theravance, Inc.**, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 951 Gateway Boulevard, South San Francisco, California 94080 (the "**Assignor**"), is the sole owner of the patents and patent applications listed in **EXHIBIT A** (such patents and patent applications and the inventions set forth therein are collectively the "**Assigned Patents**");

WHEREAS, **Theravance Biopharma R&D IP, LLC**, a limited liability company duly organized under and pursuant to the laws of Delaware and having its principal place of business at 901 Gateway Boulevard, South San Francisco, California 94080 (the "**Assignee**"), is desirous of acquiring Assignor's entire right, title and interest in and to the Assigned Patents, and in and to any subsequent patent applications and patents filed or granted thereon or therefrom, and Assignor is willing to assign its rights, title, and interest with respect thereto to the Assignee on the terms hereinafter set forth;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor does hereby sell, assign, transfer, set over and relinquishes exclusively unto the Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in and to: the Assigned Patents including, to the extent of Assignor's rights, the right to file patent applications on inventions set forth in the Assigned Patents; the right to claim priority to any of the Assigned Patents; the entire right, title and interest in and to any subsequent U.S. and foreign patent applications and patents claiming priority to any of the Assigned Patents, and in and to any U.S. and foreign patent applications and patents that claim priority to a patent application or patent arising from the Assigned Patents; any U.S. and foreign patents that may be granted on and from any of the Assigned Patents; any applications, divisionals, continuations, continuations-in-part, reexaminations, reissues, registrations, renewals, revalidations, substitutions, utility models, petty patents, extensions, and supplementary protection certificates that may be filed or granted on or for any of the Assigned Patents; all accrued causes of action for infringement of any of the foregoing; and all rights to and for the Assigned Patents under the Paris Convention for the Protection of Industrial Property; the same to be held and enjoyed by the Assignee, for its own use and behalf and for the use and behalf of its successors, legal representatives and assigns, to the full end of the term of the Assigned Patents and any such patents that may be granted thereon or therefrom as fully and entirely as if the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives and assigns, that the Assignor has not executed and will not execute any assignment, sale, agreement or encumbrance in conflict with this assignment.

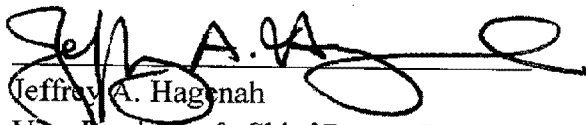
AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives and assigns that, at the Assignee's expense and reasonable request, the Assignor will take action and execute documents necessary to perfect the interest assigned herein.

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives and assigns that whenever counsel for the Assignee, or the counsel for its successors, legal representatives and assigns, shall advise that any proceeding, filing or other legal action in connection with the Assigned Patents or any patent applications and patents resulting therefrom is lawful and desirable, Assignor will, to the extent reasonable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of the Assigned Patents and patent applications and patents resulting therefrom, without charge to the Assignor, its successors, legal representatives and assigns, but at the cost and expense of the Assignee, its successors, legal representatives and assigns.

AND the Assignor hereby requests the Director of the United States Patent and Trademark Office, and all foreign patent offices, to issue any and all patents resulting from the Assigned Patents or from any patent applications filed thereon or therefrom to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, the Assignor hereby has executed this assignment on this 1st day of June 2014, at South San Francisco, California, USA.

Theravance, Inc. (Assignor)


Jeffrey A. Hagenah
Vice President & Chief Patent Counsel
& Assistant Secretary

Theravance, Inc.
951 Gateway Blvd.
South San Francisco, CA 94080
USA

Attorney Docket No. P-177

**CERTIFICATE OF
ACKNOWLEDGEMENT OF NOTARY PUBLIC**

**STATE OF CALIFORNIA
COUNTY OF SAN MATEO**

On June 1, 2014, before me, Maria Chuakay, Notary Public, personally appeared Jeffrey A. Hagenah, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Maria Chuakay (Seal)
Notary Public

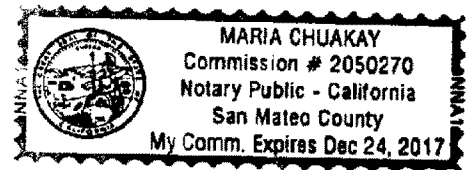


EXHIBIT A

Docket No.	Country	Sub Case	Status	Application Number	Filing Date	Patent Number	Grant Date
P-177	AR	01	Abandoned	P050100092	01/11/2005		
P-177	AU	01	Abandoned	2005206510	01/11/2005		
P-177	BR	01	Abandoned	0506823-1	01/11/2005		
P-177	CA	01	Abandoned	2,551,821	01/11/2005		
P-177	CN	01	Granted	200580002279.6	01/11/2005	ZL200580002 279.6	05/26/2010
P-177	CO	01	Abandoned	06.071.808	01/11/2005		
P-177	DE	01	Granted	05 711 348.2	01/11/2005	1 706 371	04/06/2011
P-177	DZ	01	Abandoned	060407	01/11/2005		
P-177	EG	01	Abandoned	655/2006	01/11/2005		
P-177	EP	01	Granted	05 711 348.2	01/11/2005	1 706 371	04/06/2011
P-177	ES	01	Granted	05 711 348.2	01/11/2005	1 706 371	04/06/2011
P-177	FR	01	Granted	05 711 348.2	01/11/2005	1 706 371	04/06/2011
P-177	GB	01	Granted	05 711 348.2	01/11/2005	1 706 371	04/06/2011
P-177	GC	01	Abandoned	4203	01/12/2005		
P-177	HK	01	Abandoned	07 192 349.7	03/02/2007		
P-177	ID	01	Abandoned	W-00 2006 01951	01/11/2005		
P-177	IL	01	Abandoned	176549	01/11/2005		
P-177	IN	01	Abandoned	3881/DELNP/200 6	01/11/2005		
P-177	IT	01	Granted	05 711 348.2	01/11/2005	1 706 371	04/06/2011
P-177	JP	01	Granted	2006-549523	01/11/2005	5041814	07/20/2012
P-177	KR	01	Abandoned	2006-7015602	01/11/2005		
P-177	MA	01	Abandoned	PV/29204	01/11/2005	28304	11/01/2006
P-177	MX	01	Abandoned	PA/a/2006/00772 3	01/11/2005		
P-177	MY	01	Abandoned	PI20050084	01/10/2005		
P-177	NO	01	Abandoned	20063620	01/11/2005		
P-177	NZ	01	Abandoned	548196	01/11/2005		
P-177	PH	01	Abandoned	1-2006-501341	01/11/2005		
P-177	PK	01	Abandoned	9/2005	01/10/2005		
P-177	RU	01	Abandoned	2006129312	01/11/2005	2370490	10/20/2009
P-177	SG	01	Abandoned	200604679-1	01/11/2005	124011 WO2005/070 872	01/30/2009
P-177	TH	01	Abandoned	096859	01/10/2005		
P-177	TT	01	Abandoned	TT/A/2006/00119	01/11/2005		
P-177	TW	01	Abandoned	093141433	12/30/2004		
P-177	US	01	Granted	11/033,198	01/11/2005	7,622,467	11/24/2009

Attorney Docket No. P-177

Docket No.	Country	Sub Case	Status	Application Number	Filing Date	Patent Number	Grant Date
P-177	US	02	Granted	12/574,066	10/06/2009	7,994,165	08/09/2011
P-177	US	03	Abandoned	13/170,386	06/28/2011		
P-177	US	PR1	Expired	60/535,784	01/12/2004		
P-177	VE	01	Abandoned	00014-2005	01/06/2005		
P-177	VN	01	Abandoned	1-2006-01322	01/11/2005		
P-177	WO		Nat Phase	2005/000810	01/11/2005		
P-177	ZA	01	Abandoned	2006/05720	01/11/2005	2006/5720	09/25/2008

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