503391888 07/14/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

.1 EPAS ID: PAT3438513

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREA LEONE-BAY	12/20/2011
JOSEPH J. GUARNERI	12/20/2011
GRAYSON W. STOWELL	12/22/2011

RECEIVING PARTY DATA

Name:	MANNKIND CORPORATION	
Street Address:	28903 NORTH AVENUE PAINE	
City:	VALENCIA	
State/Country:	CALIFORNIA	
Postal Code:	91355	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14622660

CORRESPONDENCE DATA

Fax Number: (949)253-0902

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: 949-253-0900

Email: stephanie.new@klgates.com

Correspondent Name: K&L GATES LLP

Address Line 1: 1 PARK PLAZA, TWELFTH FLOOR

Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER:	1951300.00180	
NAME OF SUBMITTER:	STEPHANIE NEW	
SIGNATURE:	/Stephanie New/	
DATE SIGNED:	07/14/2015	

Total Attachments: 5

source=Assignment_MK#page1.tif source=Assignment_MK#page2.tif source=Assignment_MK#page3.tif source=Assignment_MK#page4.tif

> PATENT REEL: 036083 FRAME: 0982

503391888

source=Assignment_MK#page5.tif

PATENT REEL: 036083 FRAME: 0983

ASSIGNMENT

THIS ASSIGNMENT is made by **Andrea Leone-Bay**, **Joseph Guarneri**, and **Grayson W. Stowell** (hereafter, together with any successors, legal representatives, or assigns thereof, "ASSIGNORS") to **MannKind Corporation** a corporation duly organized and existing under and by the laws of the State of Delaware and having its principal place of business at 28903 North Avenue Paine, Valencia, California 91355, (hereafter, together with any successors, legal representatives, or assigns thereof, "ASSIGNEE").

WHEREAS, ASSIGNORS have invented and own rights in, to and under a new and useful invention for which an application for Letters Patent of the United States entitled "Methods and Compositions for Treating Pain" was filed on October 24, 2011, bearing Serial No. 61/550,860 (hereafter "Patent Rights");

WHEREAS, ASSIGNORS believes themselves to be the original and true inventors of the Patent Rights;

WHEREAS, ASSIGNEE wants to acquire Patent Rights and improvements thereto owned by ASSIGNORS:

AND WHEREAS, ASSIGNORS and ASSIGNEE desire to have a recordable instrument assigning ASSIGNEE as owners of the entire right, title and interest in, to, and under the Patent Rights and improvements thereto owned by ASSIGNORS;

NOW, THEREFORE, for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS do hereby assign, transfer, endorse, sell, set over and convey unto ASSIGNEE its full and entire right, title and interest in, to and under the Patent Rights including its full and entire right, title and interest in, to and under 1) any patent application which has been or will be filed that is entitled to a benefit of priority to the patents and patent applications listed in the Patent Rights, or any other legal instrument equivalent thereof including, without limitation, continuation, division, continuation-in-part, substitute, reexamination, renewal, inventor's certificate, utility model or any other legal instrument equivalent thereto, which may be submitted therefor and thereon in the United States of America, its territorial possessions or in any and all foreign countries and any letters patent or any other legal instrument equivalent thereof which may be granted therefor and thereon in the United States of America, its territorial possessions, or in any and all foreign countries, under national laws or under the provisions of the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and any other international treaty equivalent thereof, for the full term or terms for which the same may be granted; 2) any reissue, extension, or any other legal instrument equivalent thereof of the patents and patent applications listed in the Patent Rights which has been or may be granted therefor and thereon in the United States of America, its territorial possessions, or in any and all foreign countries, under national laws or under the provisions of the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and any other international treaty equivalent thereof; the same right, title and interest in, to and under the Patent Rights to be held and enjoyed by ASSIGNEE for the use of ASSIGNEE for the full term or terms for which the same may be granted, as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this Assignment not been made;

ASSIGNORS hereby further covenant and agree to and with ASSIGNEE that where lawful and desirable and whenever requested by ASSIGNEE, without charge to ASSIGNOR, but at the

1 of 5

PATENT REEL: 036083 FRAME: 0984 cost and expense of ASSIGNEE, ASSIGNORS will generally perform any action which may be necessary and desirable to secure and to vest in ASSIGNEE the full and entire right, title and interest in, to and under the Patent Rights hereto assigned in the manner herein set forth, including, but not limited to promptly communicating and providing any and all known and accessible facts, data or any other pertinent information thereof; promptly executing and delivering any and all papers, documents, forms, declarations, oaths, affidavits and other legal instrument thereof; promptly assisting and participating in any and all depositions, hearings, proceedings, trials, appeals, or other legal procedure thereof; promptly testifying under oath in any and all interference, litigation or any other judicial proceeding thereof; and promptly completing any and all actions necessary or desirable to carry out any and all purposes thereof, relating to any and all proceedings in connection with the submission, procurement, issuance, maintenance, enforcement or defense relating to the transferred right, title and interest in, to and under the Patent Rights hereto assigned in the manner herein set forth.

IN TESTIMONY WHEREOF, I hereunder set my hand this 20 day of December, 201.

ANDREA LEONE-BAY

MARIA T. HALL

NOTARY PUBLIC

MY COMMISSION EXPIRES DEC. 31, 1014

State of Comerchant;
County of Fait field)

SS.:

On this 20 day of Asserting, 2011, before me, Maria T. Hall, personally appeared Andrea Leone-Gest of Manking Costs, personally known to me (or 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 Marcheux that the foregoing paragraph is true and correct.

Witness my hand and official seal.

MARIA T. HALL

NOTARY PUBLIC

MY COMMISSION EXPIRES DEC. 31,

2014

Docket No. 1951300.00137 IN TESTIMONY WHEREOF, I hereunder set my hand this 20th day of the contest, 2011. JOSEPH J. GUARNERI State of Connecticut County of Fair field SS.: On this 20 day of Verenber, 2011, before me, _ personally appeared Toseph J. Giamariof Mann Kind Com., personally known to me (or 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 Competituat that the foregoing paragraph is true and correct. Witness my hand and official seal. WA COMMISSION EXPIRES DEC. 31, NOTARY PUBLIC

JJAH .T AIRAM

Docket No. 1951300.00137

IN TESTIMONY WHEREOF, I hereunder set my hand this 22 day of December, 20 11.

GRAYSON W. STOWELL

State of Connecticus County of Fairfield

SS.:

On this day of cleaned, 20 //, before me, personally appeared Autor U. Struby Janka Mp, personally known to me (or 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 Mark out that the foregoing paragraph is true and correct.

Witness my hand and official seal.

MARIA T. HALL

NOTARY PUBLIC

MY COMMISSION EXPIRES DEC. 31 2

Docket No. 1951300.00137

ACKNOWLEDGED AND CONFIRMED, I hereunder set my hand this 22 day of ________, 201 as a duly authorized representative of ASSIGNEE.

MannKind Corporation
By: Thelma (Ken Cleland
Name: Thelma Chen Cleland
Title: Director 1P

State of Connecticut)
County of Fair field

SS.:

On this day of day of depute, 20 //, before me, Maria T. Hall, personally appeared deputed by personally known to me (or 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 marketing that the foregoing paragraph is true and correct.

Witness my hand and official seal.

MARIA T. HALL

NOTARY PUBLIC

MY COMMISSION EXPIRES DEC. 31, 3014