505126872 10/04/2018 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	DATA			
		Name	Execution Date	
ANDREA LEONE-BAY			10/27/2005	
DESTARDI MOYE-SHERMAN			10/27/2005	
BRYAN R. WILSON			10/25/2005	
RECEIVING PARTY I	ΟΑΤΑ			
Name:	MANNK	MANNKIND CORPORATION		
Street Address:	28903 N	03 NORTH AVENUE		
City:	VALEN	ALENCIA		
State/Country:	CALIFC	CALIFORNIA		
Postal Code:	91355	91355		
PROPERTY NUMBER	RS Total: 1			
Property Type		Number		
Application Number:		16151766		
CORRESPONDENCE Fax Number:		203)302-6615		
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		MKC-113.6(P)(US)(C)		
		ALAN D. GARDNER		
SIGNATURE:		/Alan D. Gardner/		
DATE SIGNED:		10/04/2018		
Total Attachments: 4 source=MKC113_Assig source=MKC113_Assig source=MKC113_Assig	nment#pag	e2.tif		

PATENT REEL: 047070 FRAME: 0206

ASSIGNMENT

WHEREAS, WE Andrea Leone-Bay, residing at 20 Woodland Way, Ridgefiled, CT 06877, Destardi Moye-Sherman, residing at 51 Saratoga, Newburgh, NY 12540, and Bryan R. Wilson, residing at 12 Woodland Road, Bedford, NY 10506 have invented certain new and useful inventions disclosed in an application for United States Letters Patent entitled "DIKETOPIPERAZINE SALTS FOR DRUG DELIVERY AND RELATED METHODS" also known as U.S. Patent Application No. 11/210,710, filed on August 23, 2005, and U.S. Provisional Patent Application No. 60/603,761, filed on August 23, 2004 and executed by us on even date herewith;

AND WHEREAS **MannKind Corporation**, a corporation organized and existing under the laws of **Delaware**, having a place of business at 28903 North Avenue, Paine, Valencia, CA 91355 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to said inventions, and said application and all divisions, continuations and continuationsin-part thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, all national and regional applications deriving therefrom, and all subsequent patents and divisional patents, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all continuations, continuations-in-part, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said inventions in any foreign countries; and I 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 on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said inventions, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuations-in-part, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, Thereunder set my hand this day of 20

IN TESTIMONY WHEREOF, I hereunder set my hand this 江 day of つこし, 20 05

DATED at Darbury of , this 27 day of Oct , 2005

Andrea Leone-Bay Assignor

STATE OF CONNECTICUT

COUNTY OF FAIRFALD

) SS. DANBURY, O.

On this $\underline{\mathcal{I}}^{\mathcal{T}}$ day of $\underline{\mathcal{OTTGH}}$ or, before me personally appeared $\underline{\mathcal{PHOPEA}}$ to me known or proved on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same.

(SEAL)

Notary Public

My Commission Exp. July 31, 2009

IN TESTIMONY WHEREOF, I hereunder set my hand this 27 day of Oct., 2005

DATED at <u>Danbury</u>, CT, this 27 day of <u>Oct</u>, 2005 Destardi More-Sterman Destardi Moye-Assignor STATE OF NEW YORK CONFECTION) SS.) SS.) Mar On this <u>Joh</u> day of <u>UTAGE of</u>, before me personally appeared <u>Usside</u>, <u>Ible</u> Shee mon to me known or proved on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same. Notary Public (SEAL)

My Commission Exp. July 31, 2009

IN TESTIMONY WHEREOF, I hereunder set my hand this 25 day of october 2005

DATED at Drawbury Ct, this 25 day of Cetober, 2005 R. Wilson Assignor STATE OF NEW YORK Connecticit) COUNTY OF FARFIER) SS. On this 35^{ck} day of 0006, before me personally appeared BRMRRM to me known or proved on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same. **Notary Public** (SEAL)

My Commission Exp. July 31, 2009

RECORDED: 10/04/2018

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