

## 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>BENOIT ADAMO</td> <td>03/31/2010</td> </tr> <tr> <td>SCOTT MCLEAN</td> <td>05/18/2010</td> </tr> <tr> <td>CHAD C. SMUTNEY</td> <td>03/31/2010</td> </tr> <tr> <td>JOHN M. POLIDORO</td> <td>03/31/2010</td> </tr> <tr> <td>CARL R. SAHI</td> <td>03/31/2010</td> </tr> </tbody> </table>		Name	Execution Date	BENOIT ADAMO	03/31/2010	SCOTT MCLEAN	05/18/2010	CHAD C. SMUTNEY	03/31/2010	JOHN M. POLIDORO	03/31/2010	CARL R. SAHI	03/31/2010
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RECEIVING PARTY DATA													
Name:	MANKIND CORPORATION												
Street Address:	28903 NORTH AVENUE PAINE												
City:	VALENCIA												
State/Country:	CALIFORNIA												
Postal Code:	91355												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13971723</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13971723								
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Application Number:	13971723												
CORRESPONDENCE DATA													
Fax Number:	(949)253-0902												
Phone:	949-253-0900												
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	K&L GATES LLP												
Address Line 1:	1 PARK PLAZA, TWELFTH FLOOR												
Address Line 4:	IRVINE, CALIFORNIA 92614												
ATTORNEY DOCKET NUMBER:	1951300.00100.2												
NAME OF SUBMITTER:	STEPHANIE NEW												

Signature:	/Stephanie New/
Date:	02/20/2014
Total Attachments: 6 source=100_Executed_Assignment#page1.tif source=100_Executed_Assignment#page2.tif source=100_Executed_Assignment#page3.tif source=100_Executed_Assignment#page4.tif source=100_Executed_Assignment#page5.tif source=100_Executed_Assignment#page6.tif	

## ASSIGNMENT

**WHEREAS, WE, Benoit Adamo, Scott McLean, Chad C. Smutney, John M. Polidoro, and Carl R. Sahi** have invented certain new and useful inventions entitled **"APPARATUS, SYSTEM AND METHOD FOR MEASURING RESISTANCE OF AN INHALER"** disclosed in the following patent applications:

U.S. 12/722,464	Filed March 11, 2010
PCT/US2010/27038	Filed March 11, 2010
U.S. 61/159,415	Filed March 11, 2009

**AND WHEREAS MannKind Corporation**, having a place of business at 28903 North Avenue Paine, Valencia, California 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 inventions and improvements thereto and application.

**NOW, THEREFORE**, for good and valuable consideration already received, 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 continuations-in-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 we 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 inventions 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 inventions in all countries.

IN TESTIMONY WHEREOF, I hereunder set my hand this 31 day of March, 2010.

Benoit Adamo  
Benoit Adamo  
Assignor

STATE OF NEW YORK )  
COUNTY OF Fairfield ) ss.

On this 31 day of March 2010, before me, Maria T. Hall, notary public, personally appeared **Benoit Adamo** proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing 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 entity upon behalf of which the person acted, executed the instrument.

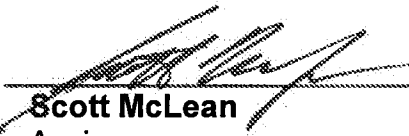
(SEAL)

Maria T. Hall  
Notary Public

MARIA T. HALL  
NOTARY PUBLIC  
MY COMMISSION EXPIRES DEC. 31, 2014

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IN TESTIMONY WHEREOF, I hereunder set my hand this 18<sup>th</sup> day of May, 2010.

  
\_\_\_\_\_  
**Scott McLean**  
Assignor

STATE OF CONNECTICUT     )  
  ) ss. Shelton  
COUNTY OF FAIRFIELD     )

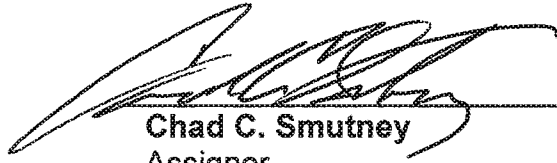
On this 18<sup>th</sup> day of May 2010, before me, Kelly Bloom Daniels, notary public, personally appeared **Scott McLean** proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person or entity upon behalf of which the person acted, executed the instrument.

(SEAL)

  
\_\_\_\_\_  
Notary Public

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IN TESTIMONY WHEREOF, I hereunder set my hand this 31 day of Mar, 2010.

  
Chad C. Smutney  
Assignor

STATE OF CONNECTICUT )  
COUNTY OF Fairfield ) ss.

On this 31 day of March 2010, before me, Maria T. Hall, notary public, personally appeared **Chad C. Smutney** proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing 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 entity upon behalf of which the person acted, executed the instrument.


(SEAL)

  
Notary Public

\*\*\*\*\*

MARIA T. HALL  
NOTARY PUBLIC  
MY COMMISSION EXPIRES ON 03/31/2014


IN TESTIMONY WHEREOF, I hereunder set my hand this 31 day of March, 2010.

  
\_\_\_\_\_  
**John M. Polidoro**  
Assignor

STATE OF CONNECTICUT    )  
  ) ss.  
COUNTY OF Fairfield    )

On this 31 day of March 2010, before me, Maria T. Hall, notary public, personally appeared **John M. Polidoro** proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing 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 entity upon behalf of which the person acted, executed the instrument.


(SEAL)

  
\_\_\_\_\_  
Notary Public

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MARIA T. HALL  
NOTARY PUBLIC  
MY COMMISSION EXPIRES DEC. 31, 2014

IN TESTIMONY WHEREOF, I hereunder set my hand this 31 day of March, 2010.

  
\_\_\_\_\_  
Carl R. Sahi  
Assignor

STATE OF CONNECTICUT     )  
  ) ss.  
COUNTY OF Fairfield     )

On this 31 day of March 2010, before me, Maria T. Hall, notary public, personally appeared Carl R. Sahi proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing 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 entity upon behalf of which the person acted, executed the instrument.

(SEAL)

  
\_\_\_\_\_  
Notary Public

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MARIA T. HALL  
NOTARY PUBLIC  
MY COMMISSION EXPIRES DEC. 31, 2014