

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4996242

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SEAN R. KIRKPATRICK	04/30/2018
ALLEN R. KIRKPATRICK	04/30/2018
MICHAEL J. WALSH	04/30/2018
RICHARD C. SVRLUGA	05/04/2018
RECEIVING PARTY DATA	
Name:	EXOGENESIS CORPORATION
Street Address:	20 FORTUNE DRIVE
City:	BILLERICA
State/Country:	MASSACHUSETTS
Postal Code:	01821
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15047553
CORRESPONDENCE DATA	
Fax Number:	(617)345-3299
<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>	
Phone:	617-345-3000
Email:	docketing@burnslev.com
Correspondent Name:	BURNS & LEVINSON, LLP
Address Line 1:	125 SUMMER STREET
Address Line 4:	BOSTON, MASSACHUSETTS 02110
ATTORNEY DOCKET NUMBER:	31198-169E CIP
NAME OF SUBMITTER:	DAVID GOMES
SIGNATURE:	/David Gomes/
DATE SIGNED:	06/07/2018
Total Attachments: 5	
source=31198-169E CIP - Executed Assignment 4844-4186-8392 v.1#page1.tif	
source=31198-169E CIP - Executed Assignment 4844-4186-8392 v.1#page2.tif	
source=31198-169E CIP - Executed Assignment 4844-4186-8392 v.1#page3.tif	

source=31198-169E CIP - Executed Assignment 4844-4186-8392 v.1#page4.tif

source=31198-169E CIP - Executed Assignment 4844-4186-8392 v.1#page5.tif

ASSIGNMENT

WHEREAS, we, Sean R. Kirkpatrick, a resident of Littleton, MA; Allen R. Kirkpatrick, a resident of Carlisle, MA; Michael J. Walsh, a resident of Billerica, MA; and Richard C. Svrluga, a resident of Cambridge, MA (hereinafter referred to collectively as "Assignors"); have jointly made an invention entitled Method and Apparatus for Neutral Beam Processing Based on Gas Cluster Ion Beam Technology and Articles Produced Thereby, and for which an application for a United States Patent was filed on February 18, 2016 and accorded U.S. Patent Application Serial No. 15/047,553.

WHEREAS, Exogenesis Corporation, having its principal place of business at 20 Fortune Dr., Billerica, MA 01821 (hereinafter referred to as "Assignee"), is desirous of acquiring right, title and interest in said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignors by these presents, do sell, assign and transfer to Assignee, Assignors' entire right, title and interest, for the United States of America and its possessions and territories and for all foreign countries, in and to said invention, including all rights of priority created and conferred by any treaty or international convention which is available in connection with said invention, including the right to apply for patent rights, U.S. or foreign, and in any continuations, continuations-in-part, divisions, substitutes, renewals, reissues or other applications filed in the U.S. or abroad (including multinational filing arrangements of all kinds), and in any U.S. or foreign patents issued on any such applications and reissues, extensions and renewals thereof, to be held and enjoyed by Assignee, for its own use and behalf and for its successors and assigns, to the full ends of the terms or extended terms for which any Letters Patents or the like may be granted, as fully and entirely as the same would have been held by Assignors had this sale, assignment and transfer not been made.

Assignors hereby authorize and request the Commissioner of Patents of the United States, and any official of any country or countries (including multinational filing arrangements of all kinds), whose duty it is to receive and/or examine applications for patents or similar intellectual/industrial property, issue patents or other evidence or forms of intellectual/industrial property protection on applications as aforesaid, to issue the same to Assignee, its successors and assigns, in accordance with the terms of this instrument.

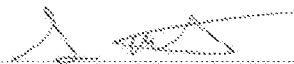
Assignors covenant with Assignee, its successors, assigns, and legal representatives that Assignors have full right to convey the entire interest herein assigned, and that Assignors have not executed any agreement in conflict herewith and will not execute any agreement or conveyance in conflict herewith.

Assignors further covenant and agree to communicate to Assignee, its successors, legal representatives and assigns, any facts known to Assignors respecting said invention, and testify in any legal proceeding, sign all lawful papers, including, without limitation,

application papers, assignments, powers of attorney, declarations, and other instruments, execute all divisional, continuing, substitute, reissue, renewal and foreign applications, make all truthful oaths, declarations and statements, and generally do everything reasonably requested of Assignors by Assignee, or its successors or assigns to aid Assignee, its successors or assigns, to obtain, enforce and/or exploit said invention.

[Assignors further authorize and direct BURNS & LEVINSON, LLP attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.]

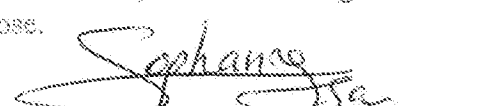
Executed this 30th day of April, 2018.



Sean R. Kirkpatrick

Commonwealth of Massachusetts)
County of Middlesex) ss.

On this 30 day of April, 2018, before me, the undersigned notary public, personally appeared Sean R. Kirkpatrick proved to me through satisfactory evidence of identification, which were MA DL to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose.



Notary Public

My commission expires Nov 11 2024

SEAL



SOPHANY U. SAR
Notary Public
Commonwealth of Massachusetts
My Commission Expires
November 1, 2024

Executed this 30th day of April, ~~2017~~ ²⁰¹⁸

Allen R. Kirkpatrick


Allen R. Kirkpatrick

Commonwealth of Massachusetts)
County of Middlesex) ss.
)

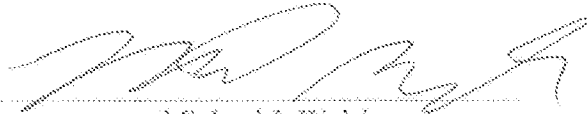
On this 30 day of April, 2018, before me, the undersigned notary public, personally appeared Allen R. Kirkpatrick, proved to me through satisfactory evidence of identification, which were MA DL, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose.

Sophany U. Sar
Notary Public
My commission expires Nov 11 2024

SEAL

 **SOPHANY U. SAR**
Notary Public
Commonwealth of Massachusetts
My Commission Expires
November 1, 2024

Executed this Apr. 30 day of Apr. 1, 2017⁸.


Michael J. Walsh

Commonwealth of Massachusetts)
County of Middlesex) ss.

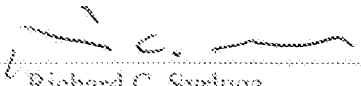
On this 30 day of Apr, 2017⁸, before me, the undersigned notary public, personally appeared Michael J. Walsh, proved to me through satisfactory evidence of identification, which were MIA DL, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose.


Notary Public
My commission expires Nov 11 2024




SOPHANY U. SAR
Notary Public
Commonwealth of Massachusetts
My Commission Expires
November 1, 2024

Executed this 4th day of MAY, 2018.


Richard C. Svrluga

Commonwealth of Massachusetts)
County of Middlesex) ss.

On this 4 day of May, 2018, before me, the undersigned notary public, personally appeared Richard C. Svrluga, proved to me through satisfactory evidence of identification, which were MASS DL, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose.

01452741  **TOMMY T. YEM**
Notary Public
Commonwealth of Massachusetts
My Commission Expires
November 1, 2024


Notary Public

My commission expires 11/1/2024