503436601 08/14/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3483225

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HOWARD HUGHES MEDICAL INSTITUTE ("HHMI")	07/15/2011

RECEIVING PARTY DATA

Name:	THE REGENTS OF THE UNIVERSITY OF MICHIGAN
Street Address:	1600 HURON PARKWAY
Internal Address:	2ND FLOOR
City:	ANN ARBOR
State/Country:	MICHIGAN
Postal Code:	48109-2590

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14822045

CORRESPONDENCE DATA

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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.

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Email: alchestnut@casimirjones.com

Correspondent Name: CASIMIR JONES SC Address Line 1: 2275 DEMING WAY

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ATTORNEY DOCKET NUMBER:	UM-31399/US-3/CON
NAME OF SUBMITTER:	TANYA A. ARENSON
SIGNATURE:	/Tanya A. Arenson/
DATE SIGNED:	08/14/2015

Total Attachments: 1

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PATENT 503436601 REEL: 036325 FRAME: 0162

Attorney Docket No.; UM-31399/US-2/ORD

ASSIGNMENT

WHEREAS, the HOWARD HUGHES MEDICAL INSTITUTE ("HHMI") hereinafter referred to as "ASSIGNOR," have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

APPLICATION TITLE:

USING PHAGE EPITOPES TO PROFILE THE IMMUNE RESPONSE

DATE OF FILING:

March 17, 2011

SERIAL NUMBER:

13/050.544

WHEREAS, THE REGENTS OF THE UNIVERSITY OF MICHIGAN, a Constitutional Corporation of the State of Michigan, having a place of business at 1600 Huron Parkway, 2nd Floor, Ann Arbor, Michigan, 48109-2590, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNORS further agree that ASSIGNORS will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHI indicated below.	ereof, assign	ORS have	hereunto signed ASSIGNORS' names	s to this Assignment on the da	ite
July 15, 2011				<u> </u>	
DATE			ARUL M. CHINNAIYAN, AGEN On behalf of the HOWARD HUG		E
STATE OF Michigan)) ss.				
COUNTY OF Washtenaw	j				
On this 15th undersigned Notary Public, pers satisfactory evidence) to be the same.	day of conally appeared t person whose nan	he above-na	, in the year of amed ASSIGNOR, known to me (or p ibed to the within instrument, and ack	proven to me on the basis of	
SEAL KAREN S. GILE NOTARY PUBLIC - STATE C COUNTY OF WASH' W Commission Expires Adjust in the County of	FENAW		NOTARY PUBLIC MY COMMISSION EXP	July 8, 2017	

PATENT REEL: 036325 FRAME: 0163

RECORDED: 08/14/2015