506320428 10/26/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HOWARD HUGHES MEDICAL INSTITUTE	09/19/2019

RECEIVING PARTY DATA

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16510463
PCT Number:	US2019041580

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	MIT 20798 UTILITY & PCT	
NAME OF SUBMITTER:	HEATHER BIFFLE	
SIGNATURE:	/Heather Biffle/	
DATE SIGNED:	10/26/2020	

Total Attachments: 4

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PATENT 506320428 REEL: 054161 FRAME: 0834

ASSIGNMENT

WHEREAS, HOWARD HUGHES MEDICAL INSTITUTE of 4000 Jones Bridge Road, Chevy Chase, Maryland 20815-6789 (hereinafter said "Assignor") is owner of the entire interest in (1) a certain invention(s) and/or improvement(s) in "NANOPARTICLE VACCINE ADJUVANT AND METHODS OF USE THEREOF" described in U.S. Application No. 16/510,463 filed in the United States Patent and Trademark Office on July 12, 2019 and International Application No. PCT/US2019/041580 filed in the United States Receiving Office for the Patent Cooperation Treaty on July 12, 2019, by Darrell J. Irvine, Murillo Silva, Shane Crotty, and Yu Kato, and in the provisional application(s) to which priority is claimed, being U.S. Provisional Application No. 62/731,214 filed in the United States Patent and Trademark Office on September 14, 2018, (2) U.S. Application No. 16/510,463 filed July 12, 2019, International Application No. PCT/US2019/041580 filed July 12, 2019, and U.S. Provisional Application No. 62/731,214 filed September 14, 2018, and (3) all Letters Patent of the United States and its possessions and territories and of all foreign countries and jurisdictions which may or shall be granted on said invention(s), on said improvement(s), or on said application(s), (4) all provisional, divisional, continuation, reissue, PCT, national phase, or other applications based thereon, and (5) all rights of priority, including the right to claim priority to said application(s), under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and any other treaty relating thereto;

WHEREAS, Darrell Irvine has been appointed to act as ASSIGNOR's agent for the purpose of assigning the rights ASSIGNOR has in (1) a certain invention(s) and/or improvement(s) in "NANOPARTICLE VACCINE ADJUVANT AND METHODS OF USE THEREOF" described in U.S. Application No. 16/510,463 filed in the United States Patent and

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Trademark Office on July 12, 2019 and International Application No. PCT/US2019/041580 filed in the United States Receiving Office for the Patent Cooperation Treaty on July 12, 2019, by Darrell J. Irvine, Murillo Silva, Shane Crotty, and Yu Kato, and in the provisional application(s) to which priority is claimed, being U.S. Provisional Application No. 62/731,214 filed in the United States Patent and Trademark Office on September 14, 2018, (2) U.S. Application No. 16/510,463 filed July 12, 2019, International Application No. PCT/US2019/041580 filed July 12, 2019, and U.S. Provisional Application No. 62/731,214 filed September 14, 2018, and (3) all Letters Patent of the United States and its possessions and territories and of all foreign countries and jurisdictions which may or shall be granted on said invention(s), on said improvement(s), or on said application(s), (4) all provisional, divisional, continuation, reissue, PCT, national phase, or other applications based thereon, and (5) all rights of priority, including the right to claim priority to said application(s), under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and any other treaty relating thereto;

WHEREAS, Darrell Irvine, for myself and acting as agent for ASSIGNOR, for good and valuable consideration from Massachusetts Institute of Technology having its principal place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02319 (hereinafter said "Assignee"), the receipt of which is hereby acknowledged, does sell, assign and transfer, for myself and as agent for the Howard Hughes Medical Institute, unto said Assignee, its successors and assigns, its entire right, title and interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in (1) a certain invention(s) and/or improvement(s) in "NANOPARTICLE VACCINE ADJUVANT AND METHODS OF USE

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MIT 20798 H Utility & PCT 701350.00795 THEREOF" described in U.S. Application No. 16/510,463 filed in the United States Patent and Trademark Office on July 12, 2019 and International Application No. PCT/US2019/041580 filed in the United States Receiving Office for the Patent Cooperation Treaty on July 12, 2019, by Darrell J. Irvine, Murillo Silva, Shane Crotty, and Yu Kato, and in the provisional application(s) to which priority is claimed, being U.S. Provisional Application No. 62/731,214 filed in the United States Patent and Trademark Office on September 14, 2018, (2) U.S. Application No. 16/510,463 filed July 12, 2019, International Application No. PCT/US2019/041580 filed July 12, 2019, and U.S. Provisional Application No. 62/731,214 filed September 14, 2018, and (3) all Letters Patent of the United States and its possessions and territories and of all foreign countries and jurisdictions which may or shall be granted on said invention(s), on said improvement(s), or on said application(s), (4) all provisional, divisional, continuation, reissue, PCT, national phase, or other applications based thereon, and (5) all rights of priority, including the right to claim priority to said application(s), under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and any other treaty relating thereto;

AND, said Assignor hereby binds itself, its legal representatives and assigns properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said Assignee, with specifications and claims in such form as shall be approved by the counsel of said Assignee, and to vest and confirm in said Assignee, their successors and assigns, the legal title to all such patents.

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	IN WITNESS WHEREOF, I have executed this Assignment this /9th day
of	September , 2019.
	HOWARD HUGHES MEDICAL INSTITUTE
	By:
	Howard Hughes Medical Institute
	Title: Agent for Howard Hughes Medical Institute
Witnes	sses:
1.	Signed: Value (naj2)
	Printed Name: Valent Coraps Address: 264 Beat Kl
	Waltham, MA 02/53
2.	Signed: Mauaux & Malo
	Printed Name: MARIANE & NEVO
	Address: 37 CONON RO
	STONEHAM MA GUI 80

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RECORDED: 10/26/2020

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