PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EDWARD A. CLARK	04/25/2019
DEBORAH FULLER	12/07/2018
MICHAEL GALE	12/07/2018

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16764950

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ATTORNEY DOCKET NUMBER:	17-1273-PCT-US
NAME OF SUBMITTER:	DAVID HARPER
SIGNATURE:	/David Harper/
DATE SIGNED:	05/19/2020

Total Attachments: 5

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PATENT 506065807 REEL: 052697 FRAME: 0320

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> PATENT REEL: 052697 FRAME: 0321

ASSIGNMENT

MBHB Case No.: 17-1273-PCT Serial No(s).: PCT/US18/61218

Inventors: Edward A. Clark, Che-Leung Law, Deborah Fuller and Michael Gale

Filing Date(s): November 15, 2018

In consideration of good and valuable consideration provided to assignor, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

University of Washington 4545 Roosevelt Way NE, Suite 400 Seattle, WA 98105-4721

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

"A Therapeutic Vaccine for Hepatitis B Virus (HBV(Using the HBV PreS1 and/or PreS2 and/or S-HBsAg Regions of the HBV Envelope Protein"

and identified as:

Case No. 17-1273-PCT

in the offices of McDonnell Boehnen Hulbert & Berghoff LLP and in said application and any and all other applications, both United States and foreign (including but not limited to all countries on the list below*), which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries (including but not limited to all countries on the list below*), which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries (including but not limited to all countries on the list below*) on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations

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the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

*Countries include, but are not limited to: all member countries of the Patent Cooperation Treaty (PCT) including Albania, Algeria, Antigua and Barbuda, Armenia, Australia, Austria, Azerbaijan, Barbados, Belarus, Belgium, Belize, Benin, Bosnia and Herzegovina, Brazil, Bulgaria, Burkina Faso, Cameroon, Canada, Central African Republic, Chad, China, Colombia, Congo, Costa Rica, Cote d'Ivoire, Croatia, Cuba, Cyprus, Czech Republic, Democratic People's Republic of Korea, Denmark, Dominica, Ecuador, Estonia, Finland, France, Gabon, Gambia, Georgia, Germany, Ghana, Greece, Grenada, Guinea, Guinea-Bissau, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Japan, Kazakhstan, Kenya, Krygyzstan, Latvia, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Madagascar, Malawi, Mali, Mauritania, Mexico, Monaco, Mongolia, Monaco, Mongolia, Morocco, Netherlands, New Zealand, Niger, Norway, Poland, Portugal, Republic of Korea, Republic of Moldova, Romania, Russian Federation, Saint Lucia, Senegal, Sierra Leone, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sudan, Swaziland, Sweden, Switzerland, Tajikstan, The former Yugoslav Republic of Macedonia, Togo, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Uganda, Ukraine, United Arab Emirates, United Kingdom, United Republic of Tanzania, United States of America, Uzbekistan, Vietnam, Yugoslavia, Zambia, Zimbabwe.

WITNESS my	hand and seal this <u>২১</u> % c	lay of April 2019 (LWAL) Jak Edward A. Clark
State of	Washington	•
County of	- Kivey	
The foi	regoing instrument was ackno ເຂາອ ,2918	wledged before me this <u>25th</u> day of by <u>Edw and A. Clar</u> *
		NOTARY PUBLIC

MODONNELL BOENNEN HURBERT & BERGHOFF 308 SOUTH WACKER DRIVE CHICAGO, ELINOIS 86868 TELEPHONE (312) 813 8861 -2-

WITNESS my hand and seal this day of, 2018			
Deborah Fuller			
State of Washington County of Fing The foregoing instrument was acknowledged before me this 7th day of December, 2018 by Debovah Fuller			
NOTARY PUBLIC NOTARY PUBLIC			
WITNESS my hand and seal this day of, 2018			
Michael Gale			
State of			
County of			
The foregoing instrument was acknowledged before me this day of			
, <u>2018</u> by			

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WITNESS my hand and seal this	day of	, <u>2018</u>
		Deborah Fuller
State of		
County of		
The foregoing instrument was a	acknowledged be	efore me this day of
, 2018	bv	
	- J	
		NOTARY PUBLIC
WITNESS my hand and seal this 7 Notary Public State of Washington KENNETH CODY MASONER	day of De	ECEMBER, 2018
COMMISSION# 202170 MY COMMISSION EXPIRES August 31, 2022		Michael Gale
State of WA		•
State of WA County of KING		
The foregoing instrument was a	acknowledged be	efore me this 7th day of
		CHAEL GALE

La A C: LL NOTARY PUBLIC

Accepted and Agreed to by Assignee, University of Washington

Signature:_____

Printed Name:

, 4 a) Toward Maye

Date: Tone 12 2019