PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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YOSHIHIRO KAWAOKA	10/05/2018
HUIHUI KONG	10/09/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17813178

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ATTORNEY DOCKET NUMBER:	P190028US03
NAME OF SUBMITTER:	MEREDITH NORIEGA
SIGNATURE:	/MEREDITH NORIEGA/
DATE SIGNED:	08/08/2022

Total Attachments: 5

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PATENT 507426040 REEL: 060740 FRAME: 0435

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ASSIGNMENT (Joint Inventors)

I am one of the persons identified as an inventor and who has contributed to a new and useful invention (the "Invention") described in the provisional, utility, or design United States patent application and/or the patent application filed under the Patent Cooperation Treaty, as identified below. These patent application(s) are identified as follows:

Filing Type	Filing Country	Serial Number	Filing Date
	CTIVE IMMUNE RESPONSES		
RESPONSES TO NO	N-DOMINANT EPITOPES IN	THE HEMAGGLUTININ (H	IA) PROTEIN
PRV	UNITED STATES	62/719952	August 20, 2018
VECTORS FOR ELI	CITING IMMUNE RESPONSE	ES TO NON-DOMINANT EPI	ITOPES IN THE
HEMAGGLUTININ	(HA) PROTEIN		
PAT	UNITED STATES	16/545761	August 20, 2019
VECTORS FOR ELI	CITING IMMUNE RESPONSE	ES TO NON-DOMINANT EP	ITOPES IN THE
HEMAGGLUTININ	(HA) PROTEIN		
PCT	W.I.P.O. (IS PCT)	PCT/US2019/047263	August 20, 2019
VECTORS FOR ELI	CITING IMMUNE RESPONSE	ES TO NON-DOMINANT EP	ITOPES IN THE
HEMAGGLUTININ	(HA) PROTEIN		
CON	UNITED STATES	17/813178	July 18, 2022

For good and valuable consideration, the receipt of which I hereby acknowledge, I do hereby sell, assign, and transfer to the Wisconsin Alumni Research Foundation ("WARF"), a non-stock, non-profit, Wisconsin corporation, and to its legal representatives, successors and assigns, my entire right, title and interest in and to the Invention and to all United States provisional, utility, and design applications as well as foreign patents or patent applications any of which cover all or part of the Invention. WARF shall hold such right, title and interest as fully and completely as they would have been held by me had this assignment and sale not been made.

I further agree, upon WARF's request, to execute any documents, including any separate assignments, declarations or other legal documents, that WARF may find necessary or desirable in its exercise of the right, title and interest assigned above. I further agree to communicate to WARF any facts relating either to the Invention or to any of the patent or patent applications based on the Invention that might be useful to WARF and to testify about any such facts in any interferences or litigation, if requested by WARF to do so. I shall do the above acts without additional compensation but at no expense to me.

Should the application number of any of the patent applications referenced above be unavailable the date that I execute this document, WARF is authorized by me to insert the application number and filing dates of these patent applications into this document. WARF is also specifically authorized to record this document as evidence of my assignment to WARF of any subsequent United States patent application claiming priority from any of the above identified patent applications.

Ref: P190028US03 Wisconsin Alumni Research Foundation

ASSIGNMENT (Joint Inventors)

I am one of the persons identified as an inventor and who has contributed to a new and useful invention (the "Invention") described in the provisional, utility, or design United States patent application and/or the patent application filed under the Patent Cooperation Treaty, as identified below. These patent application(s) are identified as follows:

Filing Type	Filing Country	Serial Number	Filing Date

BRUADLY-PROTE	CTIVE IMMUNE RESPONSES ON-DOMINANT EPITOPES IN	TO INFLUENZA VIRUSES	
PRV	UNITED STATES	62/719952	August 20, 2018

For good and valuable consideration, the receipt of which I hereby acknowledge, I do hereby sell, assign, and transfer to the Wisconsin Alumni Research Foundation ("WARF"), a non-stock, non-profit, Wisconsin corporation, and to its legal representatives, successors and assigns, my entire right, title and interest in and to the Invention and to all United States provisional, utility, and design applications as well as foreign patents or patent applications any of which cover all or part of the Invention. WARF shall hold such right, title and interest as fully and completely as they would have been held by me had this assignment and sale not been made.

I further agree, upon WARF's request, to execute any documents, including any separate assignments, declarations or other legal documents, that WARF may find necessary or desirable in its exercise of the right, title and interest assigned above. I further agree to communicate to WARF any facts relating either to the Invention or to any of the patent or patent applications based on the Invention that might be useful to WARF and to testify about any such facts in any interferences or litigation, if requested by WARF to do so. I shall do the above acts without additional compensation but at no expense to me.

Should the application number of any of the patent applications referenced above be unavailable the date that I execute this document, WARF is authorized by me to insert the application number and filing dates of these patent applications into this document. WARF is also specifically authorized to record this document as evidence of my assignment to WARF of any subsequent United States patent application claiming priority from any of the above identified patent applications.

Ref: P190028US01 Wisconsin Alumni Research Foundation

Inventor:

Gabriele Neumann
234 Randolph Drive, Apt. 316
Madison, WI 53717

State of Wisconsin

On this

Oq day of Oto Dev

Neumann, known to me to be the person identified above as the "Inventor," who executed the above instrument and acknowledged to me that he or she executed the same for the uses and purposes therein set forth.

ASSIGNMENT

Ref: P190028US01

Wisconsin Alumni Research Foundation

Inventor:

Yoshihiro Kawaoka
8722 Airport Rd.
Middleton, WI 53562

State of Wisconsin
)
Ss.
County of Dane

On this 5 day of Ottolor 2018 before me personally appeared Yoshihiro Kawaoka, known to me to be the person identified above as the "Inventor," who executed the above instrument and acknowledged to me that he or she executed the same for the uses and purposes therein set forth.

Notary Public

My Commission expires: 2/9/202/

ASSIGNMENT

Ref: P190028US01

Wisconsin Alumni Research Foundation

App.#: 62/719952, Filed: August 20, 2018

> PATENT REEL: 060740 FRAME: 0441

RECORDED: 08/08/2022

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Ref: P190028US01

Wisconsin Alumni Research Foundation

App.#: 62/719952, Filed: August 20, 2018