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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6068262

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHINYA YAMADA	04/20/2020

RECEIVING PARTY DATA

Name:	THE UNIVERSITY OF TOKYO
Street Address:	3-1, HONGO 7-CHOME, BUNKYO-KU
City:	TOKYO, 113-8654
State/Country:	JAPAN

PROPERTY NUMBERS Total: 4

Property Type	Number
PCT Number:	US2018057576
Application Number:	62633400
Application Number:	62577049
Application Number:	16170321

CORRESPONDENCE DATA

Fax Number: (608) 263 - 1064

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.

Phone: 608-265-7938 Email: mnoriega@warf.org MEREDITH NORIEGA **Correspondent Name:** Address Line 1: 614 WALNUT STREET

Address Line 2: 13TH FLOOR

Address Line 4: MADISON, WISCONSIN 53726

ATTORNEY DOCKET NUMBER:	P180114 YAMADA TO UT
NAME OF SUBMITTER:	MEREDITH NORIEGA
SIGNATURE:	/MEREDITH NORIEGA/
DATE SIGNED:	04/20/2020

Total Attachments: 4

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ASSIGNMENT

WHEREAS, Shinya Yamada (hereinafter the "Undersigned") has made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention"); as described in the patent application filed on October 25, 2018, assigned PCT application serial number PCT/US2018/057576, and titled RECOMBINANT INFLUENZA VIRUSES WITH STABILIZED HA FOR REPLICATION IN EGGS as described in a provisional patent application filed on February 21, 2018 assigned United States application serial number 62/633,400, and titled RECOMBINANT INFLUENZA VIRUSES WITH STABILIZED HA FOR REPLICATION IN EGGS; and as described in a provisional patent application filed on October 25, 2017 assigned United States application serial number 62/577,049, and titled MUTATIONS IN THE INFLUENZA VIRUS NA PROTEIN THAT STABILIZE THE VIRAL HA PROTEIN DURING PASSAGES OF INFLUENZA VIRUSES IN EMBRYONATED CHICKEN EGGS.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to The University of Tokyo (the "Assignee"), having a place of business at 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654, Japan, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

 Assignment
 Docket No: 800.101WO1

 Client Ref. No. P180114WO01 (VRS)

Title: RECOMBINANT INFLUENZA VIRUSES WITH STABILIZED HA FOR REPLICATION IN EGGS Page 2 of 4 $\,$

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 81244 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignment Docket No: 800.101WO1
Client Ref. No. P180114WO01 (VRS)

Title: RECOMBINANT INFLUENZA VIRUSES WITH STABILIZED HA FOR REPLICATION IN EGGS Page 3 of 4

Assignor:

(Signature): /Shinya Yamada/

Shinya Yamada 2-12-12-503 Kasuga

Bunkyo-ku, Tokyo, Japan 112-0003

Date: April 20th, 2020

Assignment Docket No: 800.101WO1
Client Ref. No. P180114WO01 (VRS)

Title: RECOMBINANT INFLUENZA VIRUSES WITH STABILIZED HA FOR REPLICATION IN EGGS
Page 4 of 4

ACCEPTED by Assignee as of the Date of the Signature Below:

ASSIGNEE: The University of Tokyo

Signature: ______

Printed Name: ______

Title: _____

Date: _____

PATENT REEL: 052438 FRAME: 0432

RECORDED: 04/20/2020