505950701 03/04/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5997405

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GERALD GRANT	01/12/2015

RECEIVING PARTY DATA

Name:	THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE NAVY
Street Address:	1000 NAVY PENTAGON
City:	WASHINGTON
State/Country:	D.C.
Postal Code:	20350

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15100241

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ATTORNEY DOCKET NUMBER:	0184.0018-US
NAME OF SUBMITTER:	DOREEN SASAKI
SIGNATURE:	/Doreen Sasaki/
DATE SIGNED:	03/04/2020

Total Attachments: 4

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PATENT 505950701 REEL: 052018 FRAME: 0434

ASSIGNMENT OF INVENTION

WHEREAS, I, Gerald Grant, of Kensington, MD, while employed by the Government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements, identified as:

"Patient-specific trackable cutting guides", identified as MH2 Reference 0184.0020; Johns Hopkins University reference C12739_P12739-08; and Navy docket number NC 103,537PCT, and described in U.S. provisional applications 61/910,204, filed 29 Nov 2013; 61/940, 196, filed 14 February 2014 and 62/049,866 filed 12 Sep 2014, and described in Patent Cooperation Treaty (PCT) application PCT/US2014/067174, filed 24 Nov 2014.

"Real-time cephalometry for cranimaxillofacial surgery", identified as MH2 Reference 0184.0017; Johns Hopkins University reference C12739_P12739-05; and Navy docket number NC 103,536PCT, and described in U.S. provisional applications 61/910,204, filed 29 Nov 2013; 61/940, 196, filed 14 February 2014 and 62/049,866 filed 12 Sep 2014, and described in Patent Cooperation Treaty (PCT) application PCT/US2014/067692, filed 26 Nov 2014.

"Computer-assisted face-jaw-teeth transplantation", identified as MH2 Reference 0184.0021; Johns Hopkins University reference C12739_P12739-09; and Navy docket number NC 103,538PCT, and described in U.S. provisional applications 61/910,204, filed 29 Nov 2013; 61/940, 196, filed 14 February 2014 and 62/049,866 filed 12 Sep 2014, and described in Patent Cooperation Treaty (PCT) application PCT/US2014/067504, filed 25 Nov 2014.

"Computer-assisted craniomaxillofacial surgery", identified as MH2 Reference 0184.0022; Johns Hopkins University reference C12739_P12739-10; and Navy docket number NC 103,539PCT, and described in U.S. provisional applications 61/910,204, filed 29 Nov 2013; 61/940, 196, filed 14 February 2014 and 62/049,866 filed 12 Sep 2014, and described in Patent Cooperation Treaty (PCT) application PCT/US2014/067656, filed 26 Nov 2014.

"Computer-assisted planning and execution system", identified as MH2 Reference 0184.0016; Johns Hopkins University reference C12739 P12739-04; and Navy docket

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number NC 103,540PCT, and described in U.S. provisional applications 61/910,204, filed 29 Nov 2013; 61/940, 196, filed 14 February 2014 and 62/049,866 filed 12 Sep 2014, and described in Patent Cooperation Treaty (PCT) application PCT/US2014/067671, filed 26 Nov 2014.

"Intra-operative orthognathic biomechanical simulation", identified as MH2 Reference 0184.0018; Johns Hopkins University reference C12739_P12739-06; and Navy docket number NC 103,541PCT, and described in U.S. provisional applications 61/910,204, filed 29 Nov 2013; 61/940, 196, filed 14 February 2014 and 62/049,866 filed 12 Sep 2014, and described in Patent Cooperation Treaty (PCT) application PCT/US2014/067581, filed 26 Nov 2014.

WHEREAS, the Government is desirous of acquiring an assignment of the invention disclosed in said application and other rights and benefits herein granted; and

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest therein, including foreign rights; and

WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the entire right title, and interest in and to said invention within the United States of America its territories and possessions, and the entire right, title, and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patents as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I do hereby also grant unto the Government the entire right, title, and interest in the inventions and all patent applications or other forms of protection thereon in all countries foreign to the United States of America in which the Government may file, or cause to be filed, applications for Letters Patent or other forms of protection, without payment of any consideration; provided, however, that this grant of foreign rights in the invention, or applications or other forms of protection thereon, shall have force and effect only as to foreign countries in which an application or other form of protection is filed, or which are

designated in a Patent Cooperation Treaty application and that all foreign rights not exercised are left to me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on said invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and or/ in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuations, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expenses arising through such efforts will be paid by the Government.

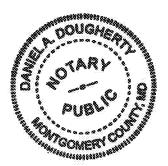
Subscribed and swom to before me this

<u>132</u> day of <u>322224</u> 2014/5

Notary Public

DANIEL A. DOUGHERTY
NOTARY PUBLIC
MONTGOMERY COUNTY
MARYLAND

MY COMMISSION EXPIRES ON 18 1/2/1/2/12018



DANIEL A. DCUGHERTY
NOTARY PUBLIC
MCNTGOMERY COUNTY
LIARYLAND
MY COMMISSION EXPIRES 011



PATENT REEL: 052018 FRAME: 0438

RECORDED: 03/04/2020