PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EDWARD WILLIAM HOLMES	07/28/2014

RECEIVING PARTY DATA

Name:	U.S. GOVERNMENT AS REPRESENTED BY THE SECRETARY OF THE ARMY
Street Address:	RDAR-GCL/BLDG. 3
Internal Address:	U.S. ARMY RDECOM-ARDEC
City:	PICATINNY ARSENAL, DOVER
State/Country:	NEW JERSEY
Postal Code:	07806-5000

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13847634	

CORRESPONDENCE DATA

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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.

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ATTORNEY DOCKET NUMBER:	2011-006
NAME OF SUBMITTER:	HENRY S. GOLDFINE
SIGNATURE:	/Henry S. Goldfine/
DATE SIGNED:	08/18/2014

Total Attachments: 2

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PATENT 502938229 REEL: 033551 FRAME: 0081

RECORDATION FO PATENT	RM COVER SHEET SONLY		
	e record the attached documents or the new address(es) below.		
Name of conveying party(ies)	2. Name and address of receiving party(ies)		
Edward William Holmes	Name: U.S. Government as Represented by the Secretary of the Army Internal Address: U.S. Army RDECOM-ARDEC		
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 7/28/2014 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424. Confirmatory License			
Executive Order 9424, Confirmatory License Other	Additional name(s) & address(es) attached? Yes No		
A. Patent Application No.(s) 13/847,634 Filing Date: 3/20/2013	document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)		
Additional numbers at 5. Name and address to whom correspondence	tached? Yes No 6. Total number of applications and patents		
concerning document should be mailed:	involved:		
Name: Lori Hanko	7. Total fee (37 CFR 1.21(h) & 3.41) \$		
Internal Address: U.S. Army RDECOM-ARDEC			
Street Address: RDAR-GCL/Bldg. 3	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)		
City: Picatinny Arsenal, Dover	8. Payment Information		
State: NJ Zip: 07806-5000			
Phone Number: 973-724-3449	.		
Docket Number: 2011-006	Deposit Account Number		
Email Address: lori.hanko.civ@mail.mil	Authorized User Name		
9. Signature: /Michael C. Sachs/	8/15/2014		
Signature	Date		
Michael C. Sachs Name of Person Signing Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450			

PATENT REEL: 033551 FRAME: 0082

ASSIGNMENT OF INVENTION

Provisional Application Serial NoFiling date:	Patent Application Title: OBTURATOR SEAL	, APPARATUS AND METHOD	
Patent Application Serial No. 13/847.834 Filing Date: 03/20/2013 Date Oath executed Docket No.: 2011-968 Patent Number: I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby: 1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions and Puerto Rico, in and to the above-identified invention(s), provisional application(s), application(s) for patent, and Patent Cooperation Treaty application(s), and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application(s) and any reissue or extension of said Letters Patent. 2. Agree to assign to the Government upon its request, all right, title and interest in the invention in those foreign countries in which the Government, within eight months of the filling of the United States application; provided that if the Government determines not to cause an application to be filed on files a Patent Cooperation Treaty application; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, or falls to file a Patent Cooperation Treaty application, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, ir cluding the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government. 3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention(s), the prosecution and set	Inventor(s): Edward William Holmes	•	
Docket No.: 2011-066 Patent Number: I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-lentitled invention was made, hereby: 1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Terribories, Possessions and Puerto Rico, in and to the above-identified invention(s), provisional application(s), application(s) for patent, and Patent Cooperation Treaty application(s), and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application(s) and any reissue of extension of said Letters Patent. 2. Agree to assign to the Government upon its request, all right, title and interest in the invention in those foreign countries in which the Government, within eight months of the filling of the United States application; provided that if the Government determines not to cause an application to be filled in any particular foreign country or fails to make such a determination, or fails to file a Patent Cooperation Treaty application, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, irreluding the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government. 3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention(s), the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon. Signature of Inventor: Edward William Holmes	Provisional Application Serial No.	Filing date:	7/ 0/20/4
I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby: 1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Terrilories, Possessions and Puerto Rico, in and to the above-identified invention(s), provisional application(s), application(s) for patent, and Patent Cooperation Treaty application(s), and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application(s) and any reissue of extension of said Letters Patent. 2. Agree to assign to the Government upon its request, all right, title and interest in the invention in those foreign countries in which the Government, within eight months of the filting of the United States application for patent, determines to cause an application to be filed or filles a Patent Cooperation Treaty application; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, or fails to file a Patent Cooperation Treat application, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government. 3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention(s), the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon. Signature of Inventor: Edward William Holmes		ing Date: 03/20/2013_Date Oath executed	1/38/3019
States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby: 1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions and Puerto Rico, in and to the above-identified invention(s), provisional application(s), application(s) for patent, and Patent Cooperation Treaty application(s), and all Letters Patent issuing thereon, and any continuation-in-part or division of said application(s) and any reissue of extension of said Letters Patent. 2. Agree to assign to the Government upon its request, all right, title and interest in the invention in those foreign countries in which the Government, within eight months of the filting of the United States application for patent, determines to cause an application to be filed or files a Patent Cooperation Treaty application; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, or fails to file a Patent Cooperation Treat application, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, irreluding the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government. 3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention(s), the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon. Signature of Inventor: Edward William Holmes	Docket No.: 2011-966 Patent No.		
Rico, in and to the above-identified invention(s), provisional application(s), application(s) for patent, and Patent Cooperation Treaty application(s), and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application(s) and any reissue or extension of said Letters Patent. 2. Agree to assign to the Government upon its request, all right, title and interest in the invention in those foreign countries in which the Government, within eight months of the filting of the United States application for patent, determines to cause an application to be filed on files a Patent Cooperation Treaty application; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, or fails to file a Patent Cooperation Treat application, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, ir cluding the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government. 3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention(s), the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon. Signature of Inventor: Edward William Holmes	States acquired by virtue of the circulareby: 1. Assign to the Government	instances under which the above	entitled invertion was trade, ed by the Secretary of the Army.
documents necessary to the prosecution of patent applications on the invention(s), the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon. Signature of Inventor: Edward William Holmes	Rico, in and to the above-identified in Patent Cooperation Treaty application continuation-in-part or division of sa 2. Agree to assign to the Go in those foreign countries in which the application for patent, determines to application; provided that if the Government patent in me (us), subject to a any patent which may issue on the sublicenses for use in behalf of the Government.	nvention(s), provisional application on(s), and all Letters Patent issuing id application(s) and any reissue of vernment upon its request, all right me Government, within eight month a cause an application to be filed or ernment determines not to cause a make such a determination, or fails on this, all right, title and interest in the nonexclusive, irrevocable, royalty-invention in such foreign country, in Government and/or furtherance of	thereon, and any continuation, extension of said Letters Patent, title and interest in the invention s of the filing of the United States files a Patent Cooperation Treaty n application to be filed in any to file a Patent Cooperation Treat e invention in such foreign countrifree license to the Government in cluding the power to issue the foreign policies of the
Typed Name of Inventor: Edward William Holmes	3. Agree to provide any furth	artion of patent applications on the	invention(s), the prosecution and
	Signature of Inventor	Date:_	7/8/14
Address: 123 Bunker Hill Rd. Valley Falls, NY 12185	Typed Name of Inventor: Edward \	Villiam Holmes	!
	Address: _123 Bunker Hill Rd. Valley Fall	s, NY 12185	: : - -

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