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1. Name of conveying party(ies)	2. Name and address of receiving party(ies)									
	Name: The United State of America									
Paul J. Vizzio, David J. Bamford	Internal Address: Naval Undersea Warfare Center									
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s):	Street Address: 1176 Howell St									
Execution Date(s) 27 September 2012	·									
Assignment Merger	City: Newport									
Security Agreement Change of Name Joint Research Agreement	State: Rhode Island									
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: USA Zip: 02841									
Other	Additional name(s) & address(es) attached? Yes No									
A. Patent Application No.(s) 13/630,717	document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)									
Additional numbers att										
5. Name and address to whom correspondence concerning document should be mailed: Name: Office of Counsel, Bldg 11	6. Total number of applications and patents involved: 1									
Internal Address: Naval Undersea Warfare Center	7. Total fee (37 CFR 1.21(h) & 3.41) \$\frac{40.00}{}									
Division, Newport	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)									
Street Address: 1176 Howell Street										
Street Address. 1110 Hollow Gudet										
City: Newport	8. Payment Information									
State: Rhode Island Zip: 02841										
Phone Number: 401-832-3653	Deposit Account Number 14-0590									
Docket Number: 101658	Authorized User Name NUWC									
Email Address:										
9. Signature: Paul A Mass	/0-3-20/2 Date									
Jean-Paul A. Nasser	Total number of pages including cover									
Name of Person Signing	eheat attachmente and documente.									
Documents to be recorded (including cover shee	sheet, attachments, and documents.									

PATENT REEL: 029095 FRAME: 0493 Additional name of conveying party attached:

Douglas A. Sasko

PATENT REEL: 029095 FRAME: 0494

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This	assignment	is	being	signed	after	filing,	the	U.S.	Patent	Application	Serial No	. 1:	5

ASSIGNMENT

WHEREAS, I/We, (1) PAUL J. VIZZIO OF BOSTON, COUNTY OF SUFFOLK,
COMMONWEALTH OF MASSACHUSETTS, (2) DAVID J. BAMFORD OF WAKEFIELD, COUNTY OF
WASHINGTON, STATE OF RHODE ISLAND and (3)DOUGLAS A. SASKO OF NORTH
STONINGTION, COUNTY OF NEW LONDON, STATE OF CONNECTICUT, while employed by the
Government of the United States, have invented certain new and useful improvements in MOTOR CONTROLLED
ROTATING BASE FOR DIRECTIONAL SUBMARINE ANTENNAS identified as ATTORNEY DOCKET No. 101658
and described in application for Letters Patent of the United States of America executed by me on

9 127 12 ; and

WHEREAS, the Government of the United States, represented by the Secretary of the Navy and hereinafter referred to as 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/We hereby assign and transfer to the Government my 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 Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the Government 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/We do hereby also grant unto the Government, the option to take the entire right, title and interest in the invention and all patent applications or other forms of protection thereon in all countries foreign to the United States 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 I may elect to take foreign rights in the invention, or applications or other forms of protection thereon, if the Government is not pursuing international patent protection within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, 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 on behalf of the Government and/or in furtherance of the foreign policies of the Government.

I/We 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 continuation, 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 expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I/We have set my hand and affixed my seal.

9-27-1Z Date

Date

092712

Date

Seal Seal

Dul J Mhl Seal

DAVID J. BAMFORD

Seal DOTGLAS & SASKO

PATENT REEL: 029095 FRAME: 0495

RECORDED: 10/03/2012