RECORD AND DISCLOSURE OF INVENTION

FOR USE BY NAVY INTELLECTUAL PROPERTY OFFICE

DATE DISCLOSURE RECEIVED

NAVY CASE NO.

INSTRUCTIONS: A Navy employee should use this form when submitting an invention disclosure to the Department of the Navy. Fill each blank with the requested information or enter "NONE" as appropriate. Original and two copies should be printed or typed and forwarded to the intellectual property office responsible for providing services to your activity. Where space on the form is inadequate, enter "see attached page," use plain pages as needed, and identify item by number. When completely executed, this form becomes an important legal document useful in proving priority of invention. This form may also be used by a contractor or grantee for disclosing an invention to the Navy.

PART 1. RECORD OF INVENTION					
1. INVENTOR(S)	ADDRESS	POSITION TITLE	EMPLOYER (Activity	& Code No., or Company & address)	
			NAVAIR 4.4.5.1		
2. DESCRIPTIVE TITLE OF INVENTION	ON			100	
THE HIGH FREQUENCY GRAVITATIONAL WAVE GENERATOR					
3. CONCEPTION, INITIAL RECORDS AND RESULTS OF FIRST MODEL					
a. EARLIEST DATE AND PLACE IN	VENTION WAS CONCEIVED (Identify per	rsons and records to support date	and place)		
09-07-2016 - Maryla	and – See list of Individuals in Se	ection 5.			
b. DATE AND PRESENT LOCATION	OF FIRST SKETCH, DRAWING OR PH	OTO AND FIRST WRITTEN DES	CRIPTION (Such as notebo	ook entries, etc.)	
09-07-2016 - Maryland					
c. DATE AND PLACE OF COMPLETION OF FIRST MODEL, PROTOTYPE, PRELIMINARY SYNTHESIS, FORMULATION, ETC., AND ITS PRESENT LOCATION					
N/A					
d. DATE AND PLACE OF FIRST TE	ST OR OPERATION AND THE RESULTS	Give name and address of witne	esses, and present location	of records)	
N/A					
4. OTHER RECORDS (Notebook entries, descriptions, reports, drawings, etc.)					
IDENTIF	ICATION	DATE OF DOCUMENT	PRE	PRESENT LOCATION	
N/A					
5. OTHER INDIVIDUALS TO WHOM I	NVENTION WAS DISCLOSED				
NAME ACTIVITY OR COMPANY INDIVIDUAL REPRESENTS		IVIDUAL REPRESENTS	DATE DISCLOSED	TYPE (oral or written disclosures)	
VACUUM	NAVAIR 4.11		09-07-2016	Written (email)	
	NAVAIR / NAWCAD		09-07-2016	Written (email)	
NAVAIR 4.4T, 4.4B		(0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 	09-07-2016	Written (email)	
NAVAIR 4.4.5, 4.4.5.1			09-07-2016	Written (email)	
	NAVAIR / NAWCAD		09-07-2016	Written (email)	
			20000 75.15		

Not Applicable – this is only a theoretical concept, for the time being.					
7. IDENTIFY ANY PAST, PRESENT OR CONTE	MPLATED USE, SALE, OR PUBLICATION OF THE I	NVENTION			
This invention is a follow-up to Navy Cases PAX 182 and PAX 205. The physical mechanism of the inventive concept is partially described in the publication The high energy electromagnetic field generator, Int. J. Space Science and Engineering, Vol.3, No. 4, 2015 pp.312-317 (peer-reviewed). Possible publication (in a suitable journal) of the present concept is being contemplated, to further increase our chances of patent allowance.					
8. LIST ANY CLOSELY RELATED PATENTS, PATENT APPLICATIONS AND PUBLICATIONS OF YOURS OR OTHER PERSONS					
THIS INVENTION ARISES AS A FOLLOW-UP TO NAVY CASE PAX 182 – 'ULTRAHIGH INTENSITY ELECTROMAGNETIC FIELD GENERATOR' AND NAVY CASE PAX 205 – 'INERTIAL MASS REDUCTION DEVICE'.					
PART II. DISCLOSURE OF INVENTION					
Attach on separate sheets of paper a full and com	plete description of the invention, using the outline given	pelow.			
a. PURPOSE. State the purpose of the invention. To generate high frequency gravitational waves (HFGW) exhibiting power levels of 10^10 Watts (approx. 10^35 gravitons/sec) and beyond, by high frequency accelerated axial rotation (spin) and/or accelerated high frequency vibration of an electrically charged asymmetric structure, within the context of non-equilibrium thermodynamics, namely far from equilibrium physics (highly non-linear in nature).					
b. BACKGROUND. Describe the old methods, materials or apparatus used to perform the purpose of the invention and give their limitations and disadvantages.					
No published literature exists on the generation of such high power HFGW (as disclosed by present concept), which has withstood the scrutiny of subject matter experts, since the ultrahigh EM field flux levels could not be achieved (until now). On February 11, 2016 the National Science Foundation publicly announced that the Laser Interferometry Gravitational Wave Observatory (LIGO) had finally detected gravitational waves from the collision of two stellar mass black holes (approx. 30 times the mass of our Sun), thereby showing the physical reality of such waves and further strengthening General Relativity (GR) theory predictions.					
c. DESCRIPTION AND OPERATION. Describe clearly and completely the best mode of the invention and give a detailed description of its operation and use. Sketches, prints, photos, or other illustrations should be attached. In the description, use reference characters to refer to components in attached illustrations.					
The asymmetric structure which is the HFGW generator, has the ability to control the accelerated modes of vibration and/or spin of its electrically charged surfaces, in particular the rapid rates of change of accelerated-decelerated-accelerated vibration and/or accelerated-decelerated-accelerated gyration (axial spin) of these electrified surfaces, in this manner delaying the onset of relaxation to thermodynamic equilibrium (thereby delaying entropy production), thus generating a physical mechanism which may induce high energy amplification effects. Under certain 'special' conditions, we (mathematically) observe exponential growth in electromagnetic energy flux (based on angular frequency of vibration) with accelerating vibration.					
 d. ADVANTAGES AND NEW FEATURES. State the advantages of the invention over the old methods, materials or apparatus described in paragraph b. above, and the features believed to be new. Advantages of invention have to do with is possible applications ranging from advanced field propulsion (space drive) to communication through solid objects, as well as asteroid (planetoid) disruption and disintegration (in light of all the recent NASA activity on this latter subject, this application is crucial). As a new feature, the HFGW generation (via the Gertsenshtein Effect) is accompanied by high frequency electromagnetic radiation which can further alter the local spacetime lattice energy density, thereby manipulating the local vacuum energy state. 					
e. ALTERNATIVES. Indicate any alternative methods, materials, or apparatus of the invention.					
- NONE					
f. CONTRIBUTIONS BY INVENTORS. If this is a joint invention, indicate what contribution was made by each inventor. – N/A					
PART III. CERTIFICATION OF INVENTORS					
certify that the invention disclosed herein and in the attached documents is the sole foint invention of the undersigned and that the statements and answers are true to my best knowledge and belief.					
Date 09/13/2016	Signature				
PART IV. CERTIFICATION OF WITNESSES					
I certify that the invention described herein and in the attached documents has been disclosed to and understood by me.					
Date		Business Address			
13 Sep 2016		NAS Patuxent River, MI			
Date	Signature	Business Address			
NAVONR 5870/35 (6-96) (Reverse)	-				