From: PTAS

To:

Subject: [Non-DoD Source] Assignment Notice of Recordation (WUID: 504226303)

Date: Wednesday, February 15, 2017 9:51:18

Attachments: Notice.pdf

CoverSheet.tif

Please find attached the Notice of Recordation and the corresponding TIFF image of the first page of the coversheet submitted to the Assignment Recordation Branch.

-----

WUID: 504226303

**DOCKET NUMBER: PAX 233** 

FIRST ASSIGNEE: DEPARTMENT OF THE NAVY

SOURCE: PTAS

-----

PLEASE NOTE: This is an unmonitored email address. In the event you need to contact the Assignment

Recordation Branch,

please email assign@uspto.gov or call (571) 272-3350.

The United States Patent and Trademark Office Mail Stop: Assignment Recordation Branch PO Box 1450

Alexandria, VA 22313

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From: \_\_\_\_\_n and Drafting
To:

Subject: [Non-DoD Source] Re: PAX 233 - Drawings Draft-1

Date: Friday, January 27, 2017 14:12:20



Sorry, I missed my type-o. This is for PAX-233.



Illustration & Drafting, Inc.

11233 Ban Ave., N.W., Uniontown, Ohio 44685

Ph. 330/497

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Please notify as immediately by e-mail or by calling 930/497-8001

From: @navy.mil>

To: @sbcglobal.net>

Cc: \_\_\_\_\_\_@navy.mil>

Sent: Friday, January 27, 2017 1:26 PM Subject: PAX 233 - Drawings Draft-1

This is the only email I have received regarding this matter. I just changed the subject line to reflect the correct file number.

----Original Message----

From:

Sent: Friday, January 27, 2017 12:56 PM

To: sbcglobal.net

Cc:

Subject: PAX 233 - Drawings Draft-1

These are for PAX 233 - correct?

<u>~~~~~~~</u>~~~~~~~~~~

Office of Counsel, NAWCAD

47076 Liljencrantz Road,

Patuxent River, MD

Phone: (301) 342

Fax: (<u>301) 995</u>-0823

E-mail: <u>@navy.mil</u>

----Original Message----

From:

Sent: Friday, January 27, 2017 12:19 PM

To:

Cc:

Subject: PAX-223, Draft-1

----Original Message-----

From: Illustration and Drafting [mailto @sbcglobal.net]

Sent: Friday, January 27, 2017 12:07 PM

To:

Subject: [Non-DoD Source] PAX-223, Draft-1



Attached for your review are the figures for PAX-223.

There is a 300 on the lower right side of Fig-1 pointing to the inner area of 100 that I think may be numbered wrong.

## Thanks

Illustration & Drafting, Inc. 11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497

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To:
Cc:

Subject: FW: [Non-DoD Source] Re: PAX 233 - Draft-1
Date: Tuesday, February 07, 2017 9:55:05

Attachments: PAX233 Draft-2.pdf

----Original Message----

From: Illustration and Drafting [mailto @sbcglobal.net]

Sent: Tuesday, February 07, 2017 9:10 AM

To:

Subject: [Non-DoD Source] Re: PAX 233 - Draft-1

Attached are the updated figures for PAX-233.

Thanks

Illustration & Drafting, Inc.

11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497

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disseminate the message or any attachment. Please notify us immediately by e-mail or by calling 330/497-8001

From: @navy.mil>

To: @sbcglobal.net>

Ce: @navy.mil>;

@navy mil>

Sent: Tuesday, February 7, 2017 8:04 AM

Subject: PAX 233 - Draft-1

Following up on this. Thank you!

----Original Message----

From:

Sent: Tuesday, January 31, 2017 8:07 AM

To: @sbcglobal net Subject: FW: PAX-223, Draft-1

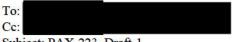
Please remove the 300 that you are talking about.

Thanks.

-----Original Message-----

From:

Sent: Friday, January 27, 2017 12:19 PM



Subject: PAX-223, Draft-1

----Original Message----

From: Illustration and Drafting @sbcglobal.net]

Sent: Friday, January 27, 2017 12:07 PM

To:

Subject: [Non-DoD Source] PAX-223, Draft-1



Attached for your review are the figures for PAX-223.

There is a 300 on the lower right side of Fig-1 pointing to the inner area of 100 that I think may be numbered wrong.



Illustration & Drafting, Inc.

11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497



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From: To: Subject: FW: [Non-DoD Source] Re: PAX 233 - Draft-1 Date: Wednesday, February 08, 2017 9:29:22 **Attachments:** PAX233 Draft-2.pdf Pax 233 - FINAL (2) Jan 30.doc Ready to file. Please create IDS for papers ent you. -----Original Message-From: Sent: Tuesday, February 07, 2017 9:55 AM To: Cc: Subject: FW: [Non-DoD Source] Re: PAX 233 - Draft-1 ----Original Message----From: Illustration and Drafting @sbcglobal.net Sent: Tuesday, February 07, 2017 9:10 AM To Subject: [Non-DoD Source] Re: PAX 233 - Draft-1 Attached are the updated figures for PAX-233. **Thanks** Illustration & Drafting, Inc. 11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497  $\widehat{a}$ navy.mil> From: sbcglobal net" To: @sbcglobal.net> @navy.mil>; @navy mil> Sent: Tuesday, February 7, 2017 8:04 AM Subject: PAX 233 - Draft-1

From
Sent: Tuesday, January 31, 2017 8:07 AM

Following up on this. Thank you!

----Original Message----

To sbcglobal net Subject: FW: PAX-223, Draft-1

Please remove the 300 that you are talking about.

Thanks.

-----Original Message-----

From:

Sent: Friday, January 27, 2017 12:19 PM

То

Сс

Subject: PAX-223, Draft-1

----Original Message-----

From: Illustration and Drafting [mailto: sbcglobal.net]

Sent: Friday January 27, 2017 12:07 PM

To:

Subject: [Non-DoD Source] PAX-223, Draft-1

Attached for your review are the figures for PAX-223.

There is a 300 on the lower right side of Fig-1 pointing to the inner area of 100 that I think may be numbered wrong.

Thanks

Illustration & Drafting, Inc.

11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497

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disseminate the message or any attachment. Please notify as immediately by a mail or by calling 330/497 8001

From:
To:
Cc:
Subject: FW: PAX 233 - Drawings Draft-1
Date: Monday, January 30, 2017 9:38:17

Attachments: PAX223 Draft-1.pdf

For your review.

From
Sent: Friday, January 27, 2017 1:26 PM
To: Osboglobal net
Cc:

Subject: PAX 233 - Drawings Draft-1

This is the only email I have received regarding this matter. I just changed the subject line to reflect the correct file number.

From:
Sent: Friday, January 27, 2017 12:56 PM
To @sbcglobal net
Cc:

Subject: PAX 233 - Drawings Draft-1

These are for PAX 233 - correct?

Office of Counsel, NAWCAD
47076 Liljencrantz Road,
Patuxent River, MD 20670
Phone: (301) 342
Fax: (301) 995-0823
E-mail: @navy.mil

From:
Sent: Friday, January 27, 2017 12:19 PM
To:
Cc:
Subject: PAX-223, Draft-1

-----Original Message----From: Illustration and Drafting [mailto @sbcglobal.net]
Sent: Friday January 27, 2017 12:07 PM
To:
Subject: [Non-DoD Source] PAX-223, Draft-1

Attached for your review are the figures for PAX-223.

There is a 300 on the lower right side of Fig-1 pointing to the inner area of 100 that I think may be numbered wrong.

Thanks

Illustration & Drafting, Inc. 11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/49

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From: To:

Subject: FW: PAX 233 - Need electronic versions of important reference papers

Date: Monday, December 12, 2016 10:30:13
Attachments: Determination Rights Letter 091616.pdf

Greetings

I am forwarding your requests to my colleague at an analyze and analyze analyze and analyze analyze and analyze analyze

v/r

NAVAIR Scientific & Technical Library

22269 Cedar Point Rd,

Patuxent River. MD 20670-1120

ph: 301.342

fax:301.342.1933

Our new library website is: https://myteam.navair.navy.mil/air/40/40t/techlibrary. Please change your bookmarks.

----Original Message----

From:

Sent: Monday, December 12, 2016 10:20 AM

To: Technical Library;

Cc:

Subject: PAX 233 - Need electronic versions of important reference papers

Could you please assist with obtaining the two papers as requesting below? Thank you!

Office of Counsel, NAWCAD

47076 Liljencrantz Road,

Patuxent River, MD 20670

Phone: (301) 342

Fax: (301) 995-0823

E-mail: anavy.mil

----Original Message----

From:

Sent: Friday December 09, 2016 7:02 AM

To:

Cc:

Subject: PAX 233 - Need electronic versions of important reference papers

Importance: High

Greetings

We need	to get our	hands on th	e two foll	lowing papers	<ul> <li>electronic PDF</li> </ul>	versions	would be	best
II C HECC	to get our	munus on u	C tho lon	to with pupers	CICCII OILL I DI	V CI SICILS	mount of	COST

1.		'Macroscopic character of composite high-temperature superconducting wires',
Phys.	Rev. B 92, 184502 - publishe	d 3 November 2015.

3. Possible light-induced superconductivity in K3C60 at high temperature', Nature 530, 461-464 (25 February 2016).

Please contact the NAVAIR PAX librarian and make this possible as soon as you can - this is essential for our PAX 233 - HFGWG patent application.

Thank you.

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1 NAS Pat<u>uxent Riv</u>er, MD

(301)99

From:

To:

Subject: FW: PAX 233 - Referenced Papers Date: Wednesday, February 08, 2017 9:32:34

Attachments:

mitrano-k3c60nat-2016.pdf HFGW - APPLICATIONS AND POSSIBILITIES.pdf IJSPACESE030402 PAIS.pdf

Importance:

### Papers for IDS

----Original Message----

From:

Sent: Tuesday, February 07, 2017 9:57 AM

Subject: PAX 233 - Referenced Papers

Importance: High

Greetings

Please see the three attached papers mentioned in the PAX 233 patent application.

Please include them with the application package to the USPTO.

Thank you.

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patu ver, MD

(301)995

From:
To:
Cc:
Subject: SW, DAY 222 inveice

Subject: FW: PAX 233 invoice

Date: Wednesday, March 01, 2017 15:34:34

Attachments: IDI PAX 233 28Feb17.pdf

020817 Navy.pdf

For processing. Thank you!

----Original Message-----

From:

Sent: Wednesday, March 01, 2017 10:07 AM

To:

Subject: RE: PAX 233 invoice

----Original Message----

From:

Sent: Tuesday February 28, 2017 1:09 PM

To:

Cc:

Subject: FW: PAX 233 invoice

Office of Counsel, NAWCAD

47076 Liljencrantz Road,

Patuxent River, MD 20670 Phone: (301) 342

Fax: (301) 995-0823

E-mail: @navy.mil

----Original Message----

From:

Sent: Tuesday, February 28, 2017 12:49 PM

To

Subject: RE: PAX 233 invoice

----Or sage-----

From:

Sent: Tuesday, February 28, 2017 10:12 AM

To:

Subject: PAX 233 invoice

Thank you!

Office of Counsel, NAWCAD 47076 Liljencrantz Road, Patuxent River, MD 20670 Phone: (301) 342 Fax: (301) 995-0823 E-mail: @navy.mil @sbcglobal.net] From: Illustration and Drafting [mailto Sent: Friday February 24, 2017 1:38 PM To: Subject: PAX 233 invoice Attached is the invoice for PAX-233. Sorry for the delay on getting this to you, I thought it was already sent. Thanks

Illustration & Drafting, Inc. 11233 Bancraue, N.W., Uniontown, Ohio 44685 Ph. 330/497

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From:
To:
Cc:

Subject: FW: PAX 233 invoice

Date: Monday, March 06, 2017 8:48:30
Attachments: IDI PAX 233 28Feb17.pdf

To all, this is to confirm that this order has been processed and the PO # is 4521229153 and the Vendor is Illustration & Drafting. Thanks

----Original Message----

From:

Sent: Saturday, March 04, 2017 4:01 PM

To:

Subject: FW: PAX 233 invoice

Very Respectfully.

Naval Test Wing Atlantic Patuxent River, MD

Comm: (301)342-

FOR OFFICIAL USE ONLY - PRIVACY SENSITIVE. ANY MISUSE OR UNAUTHORIZED DISCLOSURE
MAY RESULT IN DOTH CIVIL AND CRIMINAL PENALTIES.

-----Original Message-----

From:

Sent: Wednesday March 01, 2017 3:35 PM

To:

Cc:

Subject: FW: PAX 233 invoice

For processing. Thank you!

-----Original Message-----

From:

Sent: Wednesday March 01 2017 10:07 AM

To:

Subject: RE: PAX 233 invoice

----Original Message----

From:

Sent: Tuesday February 28 2017 1:09 PM

To:

Cc:

Subject: FW: PAX 233 invoice

Office of Counsel, NAWCAD 47076 Liljencrantz Road, Patuxent River, MD\_20670

Phone: (301) 342 Fax: (301) 995-0823

E-mail: @navy.mil

-----Original Message-----

From:

Sent: Tuesday, February 28, 2017 12:49 PM

To:

Subject: RE: PAX 233 invoice

-----Original Message-----

From:

Sent: Tuesday, February 28, 2017 10:12 AM

To:

Cc:

Subject: PAX 233 invoice

Thank you!

Office of Counsel, NAWCAD

47076 Liljencrantz Road

Patuxent River, MD 20670

Phone: (301) 342

Fax: (301) 995-0823

E-mail: @navy.mil

From: Illustration and Drafting [mailto: @sbcglobal.net]

Sent: Friday, February 24, 2017 1:38 PM

To:

Subject: PAX 233 invoice

Attached is the invoice for PAX-233.

Sorry for the delay on getting this to you, I thought it was already sent.

Thanks



Illustration & Drafting, Inc. 11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497

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From: To: Cc:

Subject: INTAKE (Invention Disclosure - The High Frequency Gravitational Wave Generator)

Date: Wednesday, September 07, 2016 15:34:57

Attachments: NAWCAD Office of Counsel - Patent Process Brochure.pdf

PATENT RIGHTS QUESTIONNAIRE.DOC RECORD AND DISCLOSURE OF INVENTION.DOC

Invention Disclosure Guide 2008.doc

Attached for your review, please find a brochure explaining the Patent Process, the Invention Disclosure form (Record and Disclosure of Invention), Patent Rights Questionnaire and Guide to completing the invention disclosure.

Should you have any questions, please feel free to contact myself or



Have a great day!

Office of Counsel, NAWCAD

47076 Liljencrantz Road, Patuxent River, MD 20670

Phone: (301) 342

Fax: (301) 995-0823

E-mail: @navy.mil

----Original Message----

From:

Sent: Wednesday, September 07, 2016 9:37 AM

To:

Subject: Invention Disclosure - The High Frequency Gravitational Wave Generator

Importance: High

#### Greetings,

This new inventive concept discloses that it is possible 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).

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 that there will be exponential growth in electromagnetic energy flux (based on angular frequency of vibration) with accelerating vibration.

The extremely high frequency / high energy gravitational waves generated can be used in a variety of 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, to say the least).

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.

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.

Think of gravitational waves as undulations in the structure of spacetime, or to be more exact 'ripples' in the curvature of the spacetime 'fabric'. They are propagating fluctuations in gravitational fields, which arise due to accelerated dynamics of massive physical entities (although the source of gravitational waves may not be massive in nature as long as its motion is represented by high frequency/high energy, far from equilibrium dynamics - as can be observed from the stress-energy-momentum tensor expression in the GR field equations).

Thus it is possible to generate HFGWs in a laboratory environment, under special conditions.

please send me the proper Invention Disclosure forms so that we can get the process going on this patent application.

Thank vou.

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1 NAS Patuxent River, MD (301)99

\*\*\* This communication is to be considered FOUO - Do Not Distribute - ITAR restricted \*\*\*

From: To: Cc:

Subject: Patent Application Filed! (PAX 233 / Application #15431823)

Date: Tuesday, February 14, 2017 10:28:47

The patent application relating to your invention has now been filed with the United States Patent & Trademark Office! Application / Serial # 15431823 was filed on February 14, 2017.

Our mission is to protect the Navy's intellectual property from claims by third parties by patenting Navy inventions and to leverage Navy technology through technology transfer.

Your incentive award is being processed and you should receive your payment soon. Thank you so much for your cooperation!

Should you have any questions or concerns, please feel free to contact me.

Thank you and have a great day!

Office of Counsel, NAWCAD 47076 Liljencrantz Road,

Patuxent River, MD 20670 Phone: (301) 342

Fax: (301) 995-0823

E-mail: @navy.mil

From:
To:
Cc:

Subject: PAX 233 - Spec

Date: Thursday, February 09, 2017 16:33:21

Attachments: PAX233 Draft-2.pdf
Spec TMB 020917.doc

Just did a quick skim on this one (b/c I really have no knowledge of this subject at all ...) - but just had one question on the attached spec (Tc).

Thank you!

Office of Counsel, NAWCAD 47076 Liljencrantz Road, Patuxent River, MD 20670 Phone: (301) 342

Fax: (301) 995-0823

E-mail: @navy.mil

----Original Message----

From:

Sent: Wednesday, February 08, 2017 9:29 AM

To:

Subject: FW: [Non-DoD Source] Re: PAX 233 - Draft-1

Ready to file. Please create IDS for papers

----Original Message----

From:

Sent: Tuesday, February 07, 2017 9:55 AM

To:

Cc:

Subject: FW: [Non-DoD Source] Re: PAX 233 - Draft-1

----Original Message----

From: Illustration and Drafting [mailto: @sbcglobal.net]

Sent: Tuesday, February 07, 2017 9:10 AM

To:

Subject: [Non-DoD Source] Re: PAX 233 - Draft-1

Attached are the updated figures for PAX-233.

Thanks

Illustration & Drafting, Inc. 11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/49

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From: @navy.mil>

To: @sbcglobal.net>

Co: @navy.mil>;

@navy.mil>;

Sent: Tuesday, February 7, 2017 8:04 AM

Subject: PAX 233 - Draft-1

Following up on this. Thank you!

-----Original Message-----From:

Sent: Tuesday, January 31, 2017 8:07 AM

To: @sbcglobal net Subject: FW: PAX-223, Draft-1

Please remove the 300 that you are talking about.

Thanks.

----Original Message----

From:

Sent: Friday, January 27, 2017 12:19 PM

To: Cc:

Subject: PAX-223, Draft-1

----Original Message----

From: Illustration and Drafting [mailto: @sbcglobal.net]

Sent: Friday, January 27, 2017 12:07 PM

To:

Subject: [Non-DoD Source] PAX-223, Draft-1

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Illustration & Drafting, Inc. 11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497

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disseminate the message or any attachment. Please notify us immediately by e-mail or by calling 330/497-8001

From: To: Cc: Subject: PAX 233 - Application Documents Date: Tuesday, February 07, 2017 14:25:31 Attachments: Assignment of Invention NAVONR.docx AIA0082 - POA.pdf AIA0014 - Application Data Sheet.pdf AIA0001-Declaration.pdf Checklist Prior to Filing Patent Application.doc I'm more than happy to schedule a separate meeting with ign everything - but if you want to print all and have ign it tomorrow, everything is attached. I'll draft the IDS with all the papers tomorrow. ----Original Message-From: Sent: Tuesday February 07, 2017 10:21 AM To: Subject: PAX 233 High Frequency Gravitational Wave Generator ----Original Message-From: February 07, 2017 10:20 AM Sen To: Subject: RE: PAX 223 If you give me the title of the application - I can riginal email has the wrong pax number and I corrected have the docs ready for o sign when omes in tomorrow. Office of Counsel, NAWCAD 47076 Liljencrantz Road, Patuxent River, MD Phone: (301) 342 (301) 995-0823 Fax: E-mail:  $\widehat{a}$ navy.mil

----Original Message----

From: Sept: Tuesday, February 07, 2017 10:19 AM

Sent: Tuesday, February 07, 2017 10:19 AM To:

Subject: RE: PAX 223

Yes. For some reason the drawings subject line said 223.

It is 233. Will send final drawings and spec tomorrow.

----Original Message----

From:

Sent: Tuesday, February 07, 2017 10:14 AM

Subject: RE: PAX 223

You mean 233 correct?

From:

----Or essage-

Sent: Tuesday, February 07, 2017 10:11 AM

Subject: PAX 223

The application will be ready for filing by tomorrow

will be at my office tomorrow for final check of spec and

drawing.

Naval Air Warfare Center Aircraft Division Office of Counsel

47076 Liljencrantz Road

Patuxent River, MD 20670

Tel.: (301) 757

Fax: (301) 342-1840

From: To:

 Subject:
 PAX 233 - NOA FEE PAID 5/2

 Date:
 Monday, May 06, 2019 11:02:12

Office of Counsel, NAWCAD

47076 Liljencrantz Road,

Phone: (201) 242

Phone: (301) 342-Fax: (301) 995-0823

E-mail: @navy.mil

----Original Message----

From: PAIR eOfficeAction@uspto.gov <PAIR eOfficeAction@uspto.gov>

Sent: Thursday, May 02, 2019 6:24 AM

To: NAVAIRWARCENACDIV MD (USA

@navy.mil>; PAXR NAWCAD PATENTS

navy mil>;

<paxr\_nawcad\_patents@navy mil>
Cc: PAIR eOfficeAction@uspto.gov

Subject: [Non-DoD Source] Private PAIR Correspondence Notification for Customer Number 21124

May 02, 2019 04:40:52 AM

Dear PAIR Customer:

Department of the Navy (Naval Air Warfare Center -Aircraft Division)

47076 Lijencreantz Road,

PATUXENT RIVER, MD 20670

UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 21124, have new outgoing correspondence.

This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form (e.g., PTOL-90) accompanying the correspondence.

#### Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application Document Mailroom Date Attorney Docket No.

15431823 NOA 05/02/2019 PAX 233 892 05/02/2019 PAX 233

1449 05/02/2019 PAX 233

To view your correspondence online or update your email addresses, please visit us anytime at <a href="https://ppairmy.uspto.gov/pair/PrivatePair">https://ppairmy.uspto.gov/pair/PrivatePair</a>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a m. to 12:00 a m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

From: To:

Subject: PAX 233 - Referenced Papers Date: Tuesday, February 07, 2017 9:57:08

Attachments:

mitrano-k3c60nat-2016.pdf HFGW - APPLICATIONS AND POSSIBILITIES.pdf IJSPACESE030402 PAIS.pdf

Importance:

Greetings

Please see the three attached papers mentioned in the PAX 233 patent application.

Please include them with the application package to the USPTO.

Thank you.

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patuxent River, MD

(301)995

From: To: Cc:

Subject: PAX 233 - The High Frequency Gravitational Wave Generator

Date: Friday, September 16, 2016 9:07:51

Thank you for submitting your invention disclosure concerning the "The High Frequency Gravitational Wave Generator". It has been assigned Navy Case Number PAX 233. We have forwarded the invention disclosure to the PAX Technology Transfer Office (TTO) to get the invention evaluation process started. The TTO will arrange for technical and marketing reviews of your invention. It usually takes 60 to 90 days to complete the technical and market reviews. You can expect to be contacted by the marketing reviewer and possibly also by the technical reviewer.

After the technical and marketing reviews have been completed, the invention will be placed on the Invention Evaluation Board's docket. You will be notified of the date. We encourage inventor participation at the meeting. It can be very helpful to have inventors there to explain how their invention works, how it differs from the prior art, and to answer any questions that Board members may have. If you would like to make a presentation at the IEB meeting, either in person or by VTC, please contact and provided in the invention will be placed on the Invention Evaluation at the meeting. It can be very helpful to have inventors there to explain how their invention works, how it differs from the prior art, and to answer any questions that Board members may have. If you would like to make a presentation at the IEB meeting, either in person or by VTC, please contact

If you have cited technical papers in your Invention Disclosure, please forward pdf's of those papers at your earliest convenience. If pdf copies are not readily available please let us know. You may also wish to ask for assistance from the NAVAIR Scientific and Technical Library at 301-342-1927 (email technical Library.fct@navy mil) or the Reference/Research Librarian at 301-342 and @navy.mil.

\*\*\* At your earliest convenience, please send me all your contact information (home address, cell, etc.).

If you have any questions concerning the IEB process or any questions concerning patent law, please feel free to contact me or We look forward to working with you on this very interesting invention.

Thank you!

Office of Counsel, NAWCAD
47076 Liljencrantz Road,
Patuxent River, MD 20670
Phone: (301) 342
Fax: (301) 995-0823

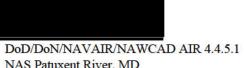
E-mail: @navy.mil

From:
Sent: Tuesday, September 13, 2016 8:22 AM
To:
Cc:
Subject:
INTAKE - HFGWG

Please see attached documents for the High Frequency Gravitational Wave Generator.

I can swing by attached at around 3:30 PM today and drop of the originals -please let me know.

Thank you for all your help.



NAS Patuxent River, MD (301)995-

From: To: Cc: Subject: PAX 233

Date: Monday, January 09, 2017 11:54:35

Attachments: Drawings 010917.pdf

Please provide a quote for the attached drawings. Thank you!

Office of Counsel, NAWCAD

47076 Liljencrantz Road, Patuxent River, MD 20670

(301) 342 Phone:

(301) 995-0823 Fax:

E-mail: @navy.mil From:
To:
Cc:

Subject: PAX233- FINAL

Date: Tuesday, January 17, 2017 8:35:18

Attachments: Pax 233 - FINAL.doc

Importance: High

# Greetings

Please use the attached PAX233 document as the 'FINAL' version of the patent application titled 'High Frequency Gravitational wave Generator'.

I did not changed any of your language, just the described RTSC physics.

Please let me know when the final drawings come in.

Thank you for all your efforts.

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patu\_\_\_iver, MD (301)995-

From:
To:
Subject: RE: PAX 233 - Spec

Date: Monday, February 13, 2017 7:10:30

File as is.

Thanks.

-----Original Message-----

From:

Sent: Thursday, February 09, 2017 4:33 PM

To:

Cc:

Subject: PAX 233 - Spec

Just did a quick skim on this one (b/c I really have no knowledge of this subject at all ...) - but just had one question on the attached spec (Tc).

Thank you!

Office of Counsel, NAWCAD

47076 Liljencrantz Road.

Patuxent River, MD 20670 Phone: (301) 342-

Fax: (301) 995-0823

E-mail: @navy.mil

----Original Message----

From:

Sent: Wednesday, February 08, 2017 9:29 AM

To:

Subject: FW: [Non-DoD Source] Re: PAX 233 - Draft-1

Ready to file. Please create IDS for papers

-----Original Message-----

From:

Sent: Tuesday, February 07, 2017 9:55 AM

To:

Cc:

Subject: FW: [Non-DoD Source] Re: PAX 233 - Draft-1

----Original Message----

From: Illustration and Drafting [mailto @sbcglobal.net]

Sent: Tuesday, February 07, 2017 9:10 AM

To:

Subject: [Non-DoD Source] Re: PAX 233 - Draft-1

Attached are the updated figures for PAX-233.

Thanks

Illustration & Drafting, Inc.

11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497

NOTE. This is a confidential communication and may contain privileged and/or confidential information. If you are not the intended recipient, please delete this message and any attachments, and do not read, copy, retain or

From: @navy.mil>

 $\widehat{w}$ navy mil>

Sent: Tuesday, February 7, 2017 8:04 AM

Subject: PAX 233 - Draft-1

Following up on this. Thank you!

-----Original Message-----

From:

Sent: Tuesday, January 31, 2017 8:07 AM

To: @sbcglobal net Subject: FW: PAX-223, Draft-1

Please remove the 300 that you are talking about.

Thanks.

----Original Message----

From:

Sent: Friday, January 27, 2017 12:19 PM

To:

Cc:

Subject: PAX-223, Draft-1

----Original Message----

From: Illustration and Drafting [mailto

Sent: Friday January 27, 2017 12:07 PM

To:

Subject: [Non-DoD Source] PAX-223, Draft-1

Attached for your review are the figures for PAX-223.

There is a 300 on the lower right side of Fig-1 pointing to the inner area of 100 that I think may be numbered wrong.



Illustration & Drafting, Inc. 11233 Bancroft Ave., N.W., Uniontown, Ohio 44685 Ph. 330/497

NOTE. This is a confidential communication and may contain privileged and/or confidential information. If you are not the intended recipient, please delete this message and any attachments, and do not read, copy, retain or disseminate the message or any attachment. Please notify us immediately by c mail or by calling 330/497-8001

From:
To:
Cc:
Subject:
RE: PAX 233 - Need another paper

Date: Tuesday, December 13, 2016 15:02:47

Attachments: nature 518 2015.pdf

Let me know if attached document works for you. If you have any questions please contact me. Thank you.

NAVAIR SCIENTIFIC & TEC<u>HNICA</u>L LIBRARY 22269 CEDAR POINT ROAD

PATUXENT RIVER MD 20670

PHONE: 301-342 FAX: 301-342-1933

@navair navy.mil

----Original Message----

From:

Sent: Tuesday, December 13, 2016 2:42 PM

To: Cc:

Subject: RE: PAX 233 - Need another paper

Greetings one more favor - I just found out about another great paper on high temp. SC, namely:

'Progress report on the theory of high temperature Superconductivity', Nature 518 (2015)

I believe is also a co-author on this one - I may have spelled the first author's name wrong.

Can you possibly see if you can get this one in PDF version as well?

Thank you very much for all your help.

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patu\_\_\_\_River, MD

(301)995

----Original Message----

From:

Sent: Tuesday, December 13, 2016 9:24 AM

To

Subject: RE: PAX 233 - Need electronic versions of important reference papers

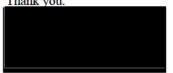
You are welcome. Glad to help!

NAVAIR SCIENTIFIC & TECHNICAL LIBRARY 22269 CEDAR POINT ROAD
PATUXENT RIVER MD 20670
PHONE: 301-342
FAX: 301-342-1933 @navair navy.mil
Original Message From:
Sent: Tuesday, December 13, 2016 9:12 AM To:
Cc: Subject: RE: PAX 233 - Need electronic versions of important reference papers
k you this is great news, I appreciate this very much.
Original Message
From: Sent: Tuesday, December 13, 2016 9:10 AM
To: Cc Subject: RE: PAX 233 - Need electronic versions of important reference papers
Attached are the articles you requested. If you have any questions please contact me. Thank you.
NAVAIR SCIENTIFIC & TECHNICAL LIBRARY 22269 CEDAR POINT ROAD PATUXENT RIVER MD 20670 PHONE: 301-342 FAX: 301-342-1933 @navair navy.mil
Original Message From:
Sent: Monday, December 12, 2016 10:37 AM
To: Subject: RE: PAX 233 - Need electronic versions of important reference papers
I mistakenly forwarded the previously attached document in my previous email. Please do not forward any further. Thank you.
Original Message
From:
Sent: Monday, December 12, 2016 10:30 AM To:
Subject: FW: PAX 233 - Need electronic versions of important reference papers
Greetings
I am forwarding your requests to my colleague at @navy.mil, who will attempt to procure what you need via Interlibrary Loan/Document Delivery. Please feel free to contact shortly for a status update.

NAVAIR Scientific & Technical Library 22269 Cedar Point Rd Patuxent River. MD 20670-1120 ph: 301.342 301.342. fax:301.342.1933 Our new library website is: https://myteam.navair.navy.mil/air/40/40t/techlibrary. Please change your bookmarks. --Original Message-From: Sent: Monday, December 12, 2016 10:20 AM To: Technical Library: Subject: PAX 233 - Need electronic versions of important reference papers with obtaining the two papers is requesting below? Thank you! Could you please assist Office of Counsel, NAWCAD 47076 Liljencrantz Road, Patuxent River, MD\_20670 Phone: (301) 342 (301) 995-0823 Fax: E-mail: @navy.mil ----Original Message-From Sent: Friday, December 09, 2016 7:02 AM To: Subject: PAX 233 - Need electronic versions of important reference papers Importance: High Greeting We need to get our hands on the two following papers - electronic PDF versions would be best: Macroscopic character of composite high-temperature superconducting wires', Phys. Rev. B 92, 184502 - published 3 November 2015. Possible light-induced superconductivity in K3C60 at high temperature', Nature 530, 461-464 (25 February 2016).

Please contact the NAVAIR PAX librarian and make this possible as soon as you can - this is essential for our PAX 233 - HFGWG patent application.

Thank you.



DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1 NAS Patuxent River, MD (301)995

From: To: Cc: Subject: RE: PAX 233 - Need electronic versions of important reference papers Date: Tuesday, December 13, 2016 9:10:04 Attachments: mitrano-k3c60nat-2016.pdf PHYS REV B 92 184502.pdf Attached are the articles you requested. If you have any questions please contact me. Thank you. NAVAIR SCIENTIFIC & TECHNICAL LIBRARY 22269 CEDAR POINT ROAD PATUXENT RIVER MD 20670 PHONE: 301-342 FAX: 301-342-1933 @navair navy.mil ----Original Message----From: Sent: Monday, December 12, 2016 10:37 AM To: Subject: RE: PAX 233 - Need electronic versions of important reference papers I mistakenly forwarded the previously attached document in my previous email. Please do not forward any further. Thank you. ----Original Message---From: Sent: Monday, December 12, 2016 10:30 AM Subject: FW: PAX 233 - Need electronic versions of important reference papers Greetings I am forwarding your requests to my colleague at @navy.mil, who will attempt to procure what you need via Interlibrary Loan/Document Delivery. Please feel free to contact hortly for a status update.

22269 Cedar Point Rd, Patuxent River, MD 20670-1120 ph: 301.342 301.342

NAVAIR Scientific & Technical Library

fax:301.342.1933

Our new library website is: https://myteam.navair.navy.mil/air/40/40t/techlibrary. Please change your bookmarks.

----Original Message----From:
Sent: Monday, December 12, 2016 10:20 AM

To: Technical Library; Cc:
Subject: PAX 233 - Need electronic versions of important reference papers
Could you please assist with obtaining the two papers s requesting below? Thank you!
Office of Counsel, NAWCAD 47076 Liljencrantz Road, Patuxent River, MD 20670 Phone: (301) 342 Fax: (301) 995-0823 E-mail: @navy.mil
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We need to get our hands on the two following papers - electronic PDF versions would be best:
1. Macroscopic character of composite high-temperature superconducting wires', Phys. Rev. B 92, 184502 - published 3 November 2015.  3. Possible light-induced superconductivity in K3C60 at high temperature', Nature 530, 461-464 (25 February 2016).
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Thank you.  DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patuvent River, MD (301)995

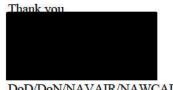
From: To: Cc: Subject: RE: PAX 233 - Need electronic versions of important reference papers Date: Tuesday, December 13, 2016 9:11:31 Thank you his is great news, I appreciate this very much. Original Message--From: Sent: Tuesday, December 13, 2016 9:10 AM To: Cc: Subject: RE: PAX 233 - Need electronic versions of important reference papers Attached are the articles you requested. If you have any questions please contact me. Thank you. NAVAIR SCIENTIFIC & TECHNICAL LIBRARY 22269 CEDAR POINT ROAD PATUXENT RIVER MD 20670 PHONE: 301-342 FAX: 301-342-1933 @navair navy.mil ----Original Message-From: Sent: Monday, December 12, 2016 10:37 AM Subject: RE: PAX 233 - Need electronic versions of important reference papers I mistakenly forwarded the previously attached document in my previous email. Please do not forward any further. Thank you. ----O1 From: Sent: Monday, December 12, 2016 10:30 AM Subject: FW: PAX 233 - Need electronic versions of important reference papers Greetings I am forwarding your requests to my colleague at @navy.mil, attempt to procure what you need via Interlibrary Loan/Document Delivery. Please feel free to contact shortly for a status update. v/r, NAVAIR Scientific & Technical Library 22269 Cedar Point Rd, Patuxent River, MD 20670-1120 ph: 301.342 301.342

-----Original Message-----

Our new library website is: https://myteam.navair.navy.mil/air/40/40t/techlibrary. Please change your bookmarks.

From:
Sent: Monday, December 12, 2016 10:20 AM
To: Technical Library;
Cc:
Subject: PAX 233 - Need electronic versions of important reference papers
Could you please assist with obtaining the two papers as requesting below? Thank you!
Office of Counsel, NAWCAD
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Phys. Rev. B 92, 184502 - published 3 November 2015.
* P
<ol> <li>Possible light-induced superconductivity in K3C60 at high temperature', Nature 530, 461-</li> </ol>

Please contact the NAVAIR PAX librarian and make this possible as soon as you can - this is essential for our PAX 233 - HFGWG patent application.



464 (25 February 2016).

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

From:
To:
Cc:
Subject: RE: PAX 233 - Referenced Papers
Date: Wednesday, February 08, 2017 9:44:29
Attachments: - Nature 518 (2015).pdf

- Macroscopic character of composite high-temperature.pdf

I also have the attached that sent me previously.

----Original Message----

From:

Sent: Wednesday, February 08, 2017 9:32 AM

To:

Subject: FW: PAX 233 - Referenced Papers

Importance: High

Papers for IDS

----Original Message----

From:

Sent: Tuesday, February 07, 2017 9:57 AM

To:

Subject: PAX 233 - Referenced Papers

Importance: High

Greetings ,

Please see the three attached papers mentioned in the PAX 233 patent application.

Please include them with the application package to the USPTO.

Thank you.

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patuxent River, MD

(301)99

From:
To:
Cc:
Subject: RE: PAX 233 - The High Frequency Gravitational Wave Generator

Date: Friday, September 16, 2016 9:26:43
Attachments: USPACESE030402 PAIS.pdf

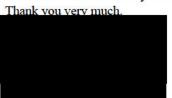
Importance: High

Greetings

Please see the attached published paper for the Invention disclosure (mentioned in it).

please schedule me for an IEB meeting as soon as possible - I will need at least 20 minutes to explain everything - this concept is different than what I have discussed before, it relies a great deal on General Relativity (gravitational wave propagation), in conjunction with the Vacuum energy state interaction.

Please let me know when you schedule me for the IEB meeting.



DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1 NAS Patuxent River, MD (301)995-

-----Original Message-----From:
Sent: Friday, September 16, 2016 9:08 AM
To:

Cc:

Subject: PAX 233 - The High Frequency Gravitational Wave Generator

Thank you for submitting your invention disclosure concerning the "The High Frequency Gravitational Wave Generator". It has been assigned Navy Case Number PAX 233. We have forwarded the invention disclosure to the PAX Technology Transfer Office (TTO) to get the invention evaluation process started. The TTO will arrange for technical and marketing reviews of your invention. It usually takes 60 to 90 days to complete the technical and market reviews. You can expect to be contacted by the marketing reviewer and possibly also by the technical reviewer.

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\*\*\* At your earliest convenience, please send me all your contact information (home address, cell, etc.). If you have any questions concerning the IEB process or any questions concerning patent law, please feel free to contact me or We look forward to working with you on this very interesting invention. Thank you! Office of Counsel, NAWCAD 47076 Liljencrantz Road, Patuxent River, MD 20670 Phone: (301) 342 Fax: (301) 995-0823 E-mail: @navy.mil ----Original Message----From: Sent: Tuesday, September 13, 2016 8:22 AM To: Cc: Subject: INTAKE - HFGWG Hi Please see attached documents for the High Frequency Gravitational Wave Generator. I can swing by at around 3:30 PM today and drop of the originals -please let me know. Thank you for all your help. DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1 NAS Patuxent River, MD

(301)995

From:
To:
Subject: RE: PAX 233 - The High Frequency Gravitational Wave Generator

Date: Friday, September 16, 2016 9:10:04

Attachments: Disclosure 091616.pdf

New Disclosure

Office of Counsel, NAWCAD
47076 Liljencrantz Road,
Patuxent River, MD 20670
Phone: (301) 342
Fax: (301) 995-0823
E-mail: @navy.mil

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Thank you!

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Patuxent River, MD 20670
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Fax: (301) 995-0823

E-mail: @navy.mil

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Cc:
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I can swing by at around 3:30 PM today and drop of the originals -please let me know.

Thank you for all your help.

Thanh you for an you hosp

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1 NAS Patuxent River, MD (301)995 From: To: Cc:

Subject: RE: PAX 233 - The High Frequency Gravitational Wave Generator

Date: Friday, September 16, 2016 9:58:38
Attachments: Determination Rights Letter 091616.pdf

Please see attached correspondence. Thank you!

Office of Counsel, NAWCAD 47076 Liljencrantz Road, Patuxent River, MD 20670 Phone: (301) 342 Fax: (301) 995-0823

E-mail: @navy.mil

----Original Message----

From:

Sent: Friday, September 16, 2016 9:27 AM

To:

Subject: RE: PAX 233 - The High Frequency Gravitational Wave Generator

Importance: High

Greetings

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please schedule me for an IEB meeting as soon as possible - I will need at least 20 minutes to explain everything - this concept is different than what I have discussed before, it relies a great deal on General Relativity (gravitational wave propagation), in conjunction with the Vacuum energy state interaction.

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DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1 NAS Patuxent River, MD (301)995

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at 301-342

an @navy.mil.

\*\*\* At your earliest convenience, please send me all your contact information (home address, cell, etc.).

If you have any questions concerning the IEB process or any questions concerning patent law, please feel free to contact me or We look forward to working with you on this very interesting invention.

Thank you!

Hi

Office of Counsel, NAWCAD
47076 Liljencrantz Road,
Patuxent River, MD 20670
Phone: (301) 342
Fax: (301) 995-0823
E-mail: @navy.mil

From:
Sent: Tuesday, September 13, 2016 8:22 AM
To:
Cc:
Subject
INTAKE - HFGWG

Please see attached documents for the High Frequency Gravitational Wave Generator.

I can swing by at around 3:30 PM today and drop of the originals -please let me know.

Thank you for all your help.

From: To: Cc: Subject: RE: PAX 233 / Application #15431823 - - Invention Award Date: Monday, April 03, 2017 10:44:40



According to the Awards Office, the expected pay date for the incentive award is 28 April.

Vr. ----Original Message----From: Sent: Tuesday, March 28, 2017 1:07 PM To: Cc:

Subject: RE: PAX 233 / Application #15431823 - - Invention Award



s checking with the awards administrator at Total Force to determine the projected pay date.

----Original Message----From:

Sent: Tuesday, March 28, 2017 12:41 PM

To:

Subject: PAX 233 / Application #15431823 - - Invention Award

Greetings,

Up to this point in time I have not received the Invention award for PAX 233 / Application #15431823 (The High Frequency Gravitational Wave Generator) - nor has any official notification of it been added to my SF-50.

Can you please let me know when this award will become official?

Please let me know.

Thank you for your consideration.



DoD/DoN/NAVAIR/NAWCAD NAS Patuxent River, MD

-----Original Message-----From: Sent: Tuesday, February 14, 2017 10:29 AM

To:

Cc:

Subject: Patent Application Filed! (PAX 233 / Application #15431823)

The patent application relating to your invention has now been filed with the United States Patent & Trademark Office! Application / Serial # 15431823 was filed on February 14, 2017.

Our mission is to protect the Navy's intellectual property from claims by third parties by patenting Navy inventions and to leverage Navy technology through technology transfer.

Your incentive award is being processed and you should receive your payment soon. Thank you so much for your cooperation!

Should you have any questions or concerns, please feel free to contact me.

Thank you and have a great day!

Office of Counsel, NAWCAD 47076 Liljencrantz Road,

Patuxent River, MD 20670

Phone: (301) 342-Fax: (301) 995-0823

E-mail: @navy.mil