

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4722089

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT		11/22/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	HUNTINGTON INGALLS INCORPORATED (F/K/A NORTHROP GRUMMAN SHIPBUILDING, INC.)	
<b>Street Address:</b>	4101 WASHINGTON AVENUE	
<b>City:</b>	NEWPORT NEWS	
<b>State/Country:</b>	VIRGINIA	
<b>Postal Code:</b>	23607	
<b>PROPERTY NUMBERS Total: 19</b>		
<b>Property Type</b>	<b>Number</b>	
Patent Number:	8330286	
Patent Number:	8446027	
Application Number:	13953981	
Application Number:	13954014	
Application Number:	14210650	
Application Number:	14210601	
Application Number:	14210730	
Application Number:	14211311	
Application Number:	62025041	
Application Number:	62070268	
Application Number:	62036762	
Application Number:	14476181	
Application Number:	62053293	
Application Number:	14487688	
Application Number:	62071708	
Application Number:	14638538	
Application Number:	14686427	
Application Number:	14695636	
Application Number:	14729561	

**CORRESPONDENCE DATA****Fax Number:** (800)494-7512

*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.*

**Phone:** 800-494-5225**Email:** ipteam@cogencyglobal.com**Correspondent Name:** STEWART WALSH**Address Line 1:** 1025 VERMONT AVE NW, SUITE 1130**Address Line 2:** COGENCY GLOBAL INC.**Address Line 4:** WASHINGTON, D.C. 20005

<b>ATTORNEY DOCKET NUMBER:</b>	F174193 PAT HI 3
--------------------------------	------------------

<b>NAME OF SUBMITTER:</b>	SONYA JACKMAN
---------------------------	---------------

<b>SIGNATURE:</b>	/Sonya Jackman/
-------------------	-----------------

<b>DATE SIGNED:</b>	12/07/2017
---------------------	------------

**Total Attachments: 7**

source=Release of Security Interest in Patent Rights (Doc 3 of 3) (EXECUTED)#page2.tif

source=Release of Security Interest in Patent Rights (Doc 3 of 3) (EXECUTED)#page3.tif

source=Release of Security Interest in Patent Rights (Doc 3 of 3) (EXECUTED)#page4.tif

source=Release of Security Interest in Patent Rights (Doc 3 of 3) (EXECUTED)#page5.tif

source=Release of Security Interest in Patent Rights (Doc 3 of 3) (EXECUTED)#page6.tif

source=Release of Security Interest in Patent Rights (Doc 3 of 3) (EXECUTED)#page7.tif

source=Release of Security Interest in Patent Rights (Doc 3 of 3) (EXECUTED)#page8.tif

**Release of Security Interest in Patent Rights**

**THIS RELEASE OF SECURITY INTEREST IN PATENT RIGHTS** (this “**Release**”) is entered into as of November 22, 2017 by and among Huntington Ingalls Incorporated (f/k/a Northrop Grumman Shipbuilding, Inc.), a Virginia Corporation (the “**Assignor**”), and JPMorgan Chase Bank, N.A., as collateral agent (the “**Agent**” or the “**Assignee**”) for the lenders party to Second Amended and Restated Credit Agreement dated as of July 13, 2015 among Huntington Ingalls Industries, Inc. (the “**Borrower**”), the lenders party thereto, and JPMorgan Chase Bank, N.A., as Administrative Agent (as further amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Credit Agreement**”);.

**WHEREAS**, pursuant to the terms and conditions of that certain Amended and Restated Security Agreement dated as of July 13, 2015 by and among the Borrower, the Guarantors (as defined therein), and JPMorgan Chase Bank, N.A., as collateral agent (as further amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Security Agreement**”), the Assignor (or the relevant predecessor in interest, as applicable) granted to the Assignee a continuing security interest in and lien on all of their right, title and interest in and to the Patent Collateral (as defined in each of the Patent Security Agreement (as defined below));

**WHEREAS**, reference is made to that Patent Security Agreement dated as of July 13, 2015 (as amended, restated, amended and restated, supplemented or otherwise modified immediately prior to the date hereof, the “**Patent Security Agreement**”), which granted to the Assignee for the benefit of the Secured Parties a continuing security interest in all of the right, title and interest of the Assignor (or the relevant predecessor in interest, as applicable) in and to the Patent Collateral, including, without limitation, each Patent registration and application referred to in Schedule A hereto;

**WHEREAS**, the Patent Security Agreement was recorded with the United States Patent and Trademark Office (the “**USPTO**”) on reel 036099 frame 0065;

**WHEREAS**, the Agent has agreed to terminate and release its security interest in and lien on the Patent Collateral.

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

Section 1. *Release of Security Interest in Patent Collateral.* (a) The Agent hereby terminates the Patent Security Agreement and hereby cancels, re-pledges, reassigns and releases any and all security interests it has against the Patent Collateral.

(b) If and to the extent the Agent has acquired any right, title or interest in, to or under any of the Patent Collateral, the Agent hereby assigns, transfers, conveys and delivers such right, title or interest to the Assignor.

(c) The Agent hereby agrees, at the expense of the Assignor, to execute and deliver to the Assignor such additional documents, instruments and certificates, and take

such other actions, as the Assignor shall reasonably request to evidence the termination of the Agent's lien on, and the release of, the Patent Collateral.

Section 2. *Recordation of Release.* The Agent hereby authorizes and requests that the Commissioner for Patents in the USPTO, and any other necessary United States government officer, record this Release; it being understood that such recordation shall be at the Assignor's sole expense.

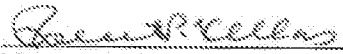
Section 3. *Counterparts.* This Release may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original and all of which when taken together shall constitute one and the same agreement.

Section 4. *Governing Law.* This Release shall be governed by and construed in accordance with the laws of the State of New York.

*[Remainder of page intentionally left blank.]*

IN WITNESS WHEREOF, the Agent has caused this Release to be executed by its duly authorized representative:

JPMORGAN CHASE BANK, N.A., as  
Collateral Agent

By:   
Name: Robert P. Kellas  
Title: Executive Director

*[Signature Page to Patent Release]*

**PATENT**  
**REEL: 044325 FRAME: 0336**

ACCEPTED AND ACKNOWLEDGED BY:

**HUNTINGTON INGALLS  
INCORPORATED**

By: 

Name: D. R. Wyatt

Title: Treasurer

[Signature Page to Patent Release]

**PATENT**  
**REEL: 044325 FRAME: 0337**

**SCHEDULE 1****UNITED STATES PATENTS AND DESIGN PATENT**

<b>Patent No.</b>	<b>Country</b>	<b>Issued</b>	<b>Expiration</b>	<b>Title</b>
Appln. No. 13/493,385 Patent No. 8,330,286	US		8/20/2029	
Appln. No. 13/709,150 Patent No. 8,446,027	US		8/20/2029	

**UNITED STATES PATENT APPLICATIONS**

<b>Registered Owner</b>	<b>Patent/Application Number</b>	<b>Country of Registrati</b>	<b>Expiration Date</b>
Huntington Ingalls Incorporated	Appln. No. 10747360.5	EP	
Huntington Ingalls Incorporated	Appln. No. 13/953,981	US	
Huntington Ingalls Incorporated	Appln. 13/954,014	US	
Huntington Ingalls Incorporated	Appln. No. 14/210,650	US	
Huntington Ingalls Incorporated	Appln. No. 14/210,601	US	
Huntington Ingalls Incorporated	Appln. No. 14/210,730	US	
Huntington Ingalls Incorporated	Appln. No. 14/211,311	US	
Huntington Ingalls Incorporated	Appln. No. PCT/US14/27283	WO	
Huntington Ingalls Incorporated	Appln. No. PCT/US14/27333	WO	
Huntington Ingalls Incorporated	Appln No. PCT/US14/27396	WO	

<b>Registered Owner</b>	<b>Patent/Application Number</b>	<b>Country of Registrati</b>	<b>Expiration Date</b>
Huntington Ingalls Incorporated	Appln. No. 62/025,041	US	
Huntington Ingalls Incorporated	Appln. No. 62/070,268	US	
Huntington Ingalls Incorporated	Appln. No. 62/036,762	US	
Huntington Ingalls Incorporated	Appln. No. 14/476,181	US	
Huntington Ingalls Incorporated	Appln. No. 62/053,293	US	
Huntington Ingalls Incorporated	Appln. No. 14/487,688	US	
Huntington Ingalls Incorporated	Appln. No. PCT/US14/53993	WO	
Huntington Ingalls Incorporated	Appln. No. PCT/US14/55865	WO	
Huntington Ingalls Incorporated	Appln. No. 62/071,708	US	
Huntington Ingalls Incorporated	Appln. No. 14/638,538	US	
Huntington Ingalls Incorporated	Appln. No. PCT/US15/18749	WO	
Huntington Ingalls Incorporated	Appln. No. 14/686,427	US	
Huntington Ingalls Incorporated	Appln. No. PCT/US15/25784	WO	
Huntington Ingalls Incorporated	Appln. No. 14/695,636	US	



<b>Registered Owner</b>	<b>Patent/Application Number</b>	<b>Country of Registrati</b>	<b>Expiration Date</b>
Huntington Ingalls Incorporated	Appln. No. PCT/US15/27534	WO	
Huntington Ingalls Incorporated	Appln. No. 14/729,561	US	
Huntington Ingalls Incorporated	Appln No. PCT/US15/33972	WO	

### **PATENT LICENSES**

None.