504071517 10/28/2016 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROGER DICKERHOOF	01/07/2016
JAMES MERRYFIELD	01/28/2016
JOSHUA JEFFERS	12/31/2015
ELIZABETH O'NEILL	04/11/2016
BRYAN WOOSLEY	01/11/2016
DAVID BARTLETT	01/23/2016
ROBERT MOSER	04/11/2016
CARL MILLER	04/13/2016
AECOM F/K/A URS CORPORATION	10/26/2016

RECEIVING PARTY DATA

Name:	UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE NAVY
Street Address:	875 N. RANDOLPH ST
Internal Address:	OFFICE OF NAVAL RESEARCH, ROOM 522, ATTN: CODE OOCCIP
City:	ARLINGTON
State/Country:	VIRGINIA
Postal Code:	22203-1995

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14984080

CORRESPONDENCE DATA			
Fax Number:	(812)854-4729		
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:	812-854-4100		
Email:	CHRISTOPHER.MONSEY@NAVY.MIL		
Correspondent Name:	CRANE NAVAL SURFACE WARFARE CENTER OFFIC		
Address Line 1:	BUILDING 2		
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ATTORNEY DOCKET NUMBER:	103,209	
NAME OF SUBMITTER:	CHRISTOPHER A. MONSEY	
SIGNATURE:	/Christopher A. Monsey/	
DATE SIGNED:	10/28/2016	
Total Attachments: 9		
source=103209_assignment_bartlett#page1.tif		
source=103209_assignment_dickerhoof#page1.tif		
source=103209_assignment_jeffers#page1.tif		
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source=103209_assignment_oneill#page1.tif		
source=103209_assignment_URS#page1.tif		
source=103209_assignment_woosley#page1.tif		

WHEREAS, 1, David Bartlett, of Mitchell, Indiana, while employed by the government of the United States. of America, hereinafter referred to as the Government, have invented certain new and useful improvements in A-MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by me on the dates referenced below, and

Patent Application 14/984,080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph I(a) of Executive Order 100%, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights:

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the 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 combination, 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 United States of America United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patens covering the invention, such option to be exercised by a written notification to me within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government any and all passers, documents, affidavita, 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 gaid by the Coveranceat.

IN TESTIMONY WHEREOF, I have set my hand and affired any scale

David L. Bartlett

Printed Name

23 Jan 2016

WHEREAS, I, Roger Dickerhoof, of Bloomington, Indiana, while employed by the government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements in A MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by me on the dates referenced below, and

Pateni Application 14/984,080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph I(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW. THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged. I hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the 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 United States of America United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I 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 have set my hand and affixed my seaf.

Inventor Signaulre

1/7/16 Date

Roger Dickerhoof Printed Name

WHEREAS, I, Joshua Jeffers, of Loogootee, Indiana, while employed by the government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements in A MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by me on the dates referenced below, and

Patent Application 14/984.080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph I(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights:

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer to the United States of America as represented by the Sceretary of the Navy the 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 United States of America United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention, such option to be exercised by a written notification to me within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I 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 have set my hand and affixed my seal.

Inventor Signature

Johan Jeffers

Printed Name

<u>|]-3]-7615</u> Date

WHEREAS, I, James Merryfield, of Bedford, Indiana, while employed by the government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements in A MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by me on the dates referenced below, and

Patent Application 14/984,080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph I(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights, and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights,

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged. I hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the 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 United States of America United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention, such option to be exercised by a written notification to me within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I 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.

X FIE L D

IN TESTIMONY WHEREOF, I have set my hand and atfixed my seal.

Inventor

M & R R

36 JAN 2016 Date

Printed Name

JAMES

Navy Case: 103,209

WHEREAS, I, Carl Miller, of Bedford, Indiana, while employed by a contractor of the government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements in A MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by the various inventors on the dates referenced below, and

Patent Application 14/984,080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Government Contract N00178-04-D-4042, task order FC13, and Technical Instruction 002 (TI-002) [Chockfast] dated 11 April 2009 (effective date) and 09 April 2009 (date of work statement), respectively, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the 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 United States of America United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within such eight months after filing of the invention in the United States identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I 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 or obtaining patent(s) as may be requested, provided that any expense arising through such efforts will be paid by the Government.

I have consulted with my employer and have received authorization to sign this assignment from my employer.

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

Digitally signed by MILLER.CARL. MILLER.CARLE.1386607482 E.1386607482

DN: c=US, a=U.S. Government, ou=DoD,

Inventor Signature

Carl Miller, Engineering Technician, URS Corporation Printed Name

> PATENT REEL: 040157 FRAME: 0263

.....

Date

WHEREAS, I, Robert Moser, of Heltonville, Indiana, while employed by a contractor of the government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements in A MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by the various inventors on the dates referenced below, and

Patent Application 14/984,080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Government Contract N00178-04-D-F013 and task order TI-002 [Chockfast] dated <u>11 April 2009</u> (effective date) and <u>09 April 2009</u> (date of work statement), respectively, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the 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 United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within such eight months after filing of the invention in the United States identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I 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 or obtaining patent(s) as may be requested, provided that any expense arising through such efforts will be paid by the Government.

I have consulted with my employer and have received authorization to sign this assignment from my employer.

IN TESTIMONY WHEREOF, I have set my hand and affixed my seal. MOSER.ROBERT.E.12 Digitally signed by MOSER.ROBERT.E.1281058954 DN csUS, co-US, co-US, Covernment, cu=DoD, cu=PRI, cu=USN, cn=MOSER.FDOBERT.E.1283099954 Date 2016.04.11 07:43:56 0400 Inventor Signature Date Robert E, Moser Printed Name

Navy Case: 103,209

WHEREAS, I, Elizabeth O'Neill, of Washington, Indiana, while employed by the government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements in A MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by me on the dates referenced below, and

Patent Application 14/984.080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph I(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights:

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged. I hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the 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 United States of America United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I 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 have set my hand and affixed my seal.

<u>Uinalth</u> O'Neill Inventor signature <u>Elizabeth</u> O'Neill

Printed Nam

<u>4/11/16</u> Date

BDDB01 5115813v1

Navy Case: 103,209

WHEREAS, AECOM, formerly known as URS Corporation of 13923 East Captain WJ Nelson Drive, Odon, Indiana, while engaged as a contractor of the Government of the United States of America, hereinafter referred to as the Government, have employed employees, contractors or subcontractors who have invented or contributed to an invention of certain new and useful improvements in A MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by the various inventors on the dates referenced below, and

Patent Application 14/984,080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Government Contract N00178-04-D-4042, Task Order FC13 and Technical Instructions 002 (TI-002) [Chockfast] dated <u>11 April 2009</u> (effective date) and <u>09 April 2009</u> (date of work statement), respectively, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the 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 United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

We do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to us within such eight months after filing of the invention in the United States identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in us subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

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 or obtaining patent(s) as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, we have set our hands and affixed our seals.

Gary Lindley Digitally signed by Gary Lindley DN: cn=Gary Lindley, o=URS, ou=Contracts, email=gary.lindley@urs.com, c=US Date: 2016.10.26 13:5013 -0400'

26 October 2016

Date

Authorized Representative, AECOM f/k/a URS Corporation

Gary L. Lindley

Printed Name

WHEREAS, I, Bryan Woosley, of Bedford, Indiana, while employed by the government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements in A MOLD ASSEMBLY AND METHOD OF MOLDING A COMPONENT described in application for Letters Patent of the United States of America executed by me on the dates referenced below, and

Patent Application 14/984,080 filed on December 30, 2015

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph I(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged. I hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the 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 United States of America United States of America as represented by the Secretary of the Navy to the end of the term for which said Leners Patent may be granted, as fully and entirely as the same would have been held by us had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention, and that the rights in the foreign countries not exercised under the option are left in mesubject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I 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 have set my hand and affixed my seal.

Jan D. Wooslay

Printed Name

11 JAN 2016

9DD801 5115813v1 **RECORDED: 10/28/2016**