503938942 07/29/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3985597

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADAM THURN	06/28/2016
PHILIP A. FEERST	07/05/2016
RONALD L. SUTTON	07/05/2016
STEVEN M. KOSS	07/05/2016
ROBERT W. BALDAUFF	07/23/2016

RECEIVING PARTY DATA

Name:	U.S. GOVERNMENT AS REPRESENTED BY THE SECRETARY OF THE NAVY
Street Address:	875 NORTH RANDOLPH STREET, SUITE 1425
Internal Address:	OFFICE OF NAVAL RESEARCH, OFFICE OF COUNSEL (ATTN: CODE OOCCIP)
City:	ARLINGTON
State/Country:	VIRGINIA
Postal Code:	22203

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15079047

CORRESPONDENCE DATA

(202)404-7380 Fax Number:

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: 202-404-1558

patent.docketing@nrl.navy.mil Email:

NAVAL RESEARCH LABORATORY Correspondent Name:

Address Line 1: CODE 1008.2

Address Line 2: 4555 OVERLOOK AVENUE, S.W. Address Line 4: WASHINGTON, D.C. 20375-5320

ATTORNEY DOCKET NUMBER:	102854-US3
NAME OF SUBMITTER:	SALLY A. FERRETT
SIGNATURE:	/Sally A. Ferrett/

PATENT REEL: 039296 FRAME: 0159

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DATE SIGNED:	07/29/2016
Total Attachments: 15	
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PATENT REEL: 039296 FRAME: 0160

ASSIGNMENT BY INVENTOR (UNITED STATES PATENTS)

THIS ASSIGNMENT, made by Adam Thurn (hereinafter referred to as Assignor), residing at 2609 Willo Lane, Costa Mesa, California 92627;

WHEREAS, Assignor, while employed by the Government of the United States, together with Philip A. Feerst, Ronald Sutton, Stephen Koss, and Robert W. Baldauff, has invented certain new and useful improvements in a Flexible Pressure Line Twist Capsule Rotary Union for Steerable Spacecraft Radiator, set forth in a Provisional Application No. 62/137167 filed on March 23, 2015 and in U.S. Application No. 15/079,047 filed on March 23, 2016;

WHEREAS, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application(s) for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

WHEREAS, by acquiring the Assignor's entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with the Assignor as allowed by law;

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the Assignor's entire right, title, and interest therein, including the foreign rights; and

NOW, THEREFOR, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has assigned, transferred and set over, and by these presents does assign, transfer and set over, unto the Government, its successors, legal representatives and assigns, Assignor's entire right, title and interest in and to the above-mentioned inventions and application(s) for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application(s), and any and all Letters Patent in the United States which may be granted therefor and thereon, and reissues,

PATENT REEL: 039296 FRAME: 0161 reexaminations and extensions of said Letters Patent, the same to be held and enjoyed by the Government, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to the Government, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to the Government under law or that have already been transferred to the Government, Assignor is a co-owner of the entire right, title and interest in and to the said inventions and application(s) for Letters Patent above-mentioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

and with the Government, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions in the U.S. or any foreign country, without charge to the Government, its successors, legal representatives and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application(s) for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application(s) for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee

> PATENT REEL: 039296 FRAME: 0162

AND the Assignor does hereby also grant unto the Government, the right to claim priority to the application(s) identified above.

AND the Assignor hereby further agrees 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(s) and of any continuation, division, or substitution of the application(s), or any application(s) 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.

AND Assignor hereby grants all practitioners at Customer Number 26384 (Naval Research Laboratory) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 6/28/16 Signature: Adam Thurn, Assignor

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Philip A. Feerst (hereinafter referred to as Assignor), residing at 9948 Woodrow Street, Vienna, Virginia 22181;

WHEREAS, Assignor, together with Adam Thurn, Ronald L. Sutton, Stephen M. Koss, and Robert W. Baldauff, has invented certain new and useful improvements in a Flexible Pressure Line Twist Capsule Rotary Union for Steerable Spacecraft Radiator, set forth in a Provisional Application No. 62/137167 filed on March 23, 2015 and in U.S. Application No. 15/079,047 filed on March 23, 2016;

WHEREAS, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application(s) for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon and in and to any foreign patents to be obtained therefor and thereon;

WHEREAS, by acquiring the Assignor's entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with the Assignor as allowed by law;

WHEREAS, Assignor is obligated as employee of P.A.F. Engineering Associates (Contractor) to assign inventions to Contractor, and Contractor is obligated to the Government under contract;

NOW, THEREFOR, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has assigned, transferred and set over, and by these presents does assign, transfer and set over, unto the Government, its successors, legal representatives and assigns, subject to a nonexclusive and royalty-free license which is hereby reserved to Contractor, Assignor's entire right, title and interest in and to the above-mentioned inventions and application(s) for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application(s), and

any and all Letters Patent in the United States and in all other Patent Cooperation
Treaty member states which may be granted therefor and thereon, and reissues,
reexaminations and extensions of said Letters Patent, and all rights under the
International Convention for the Protection of Industrial Property, the same to be held
and enjoyed by the Government, for its own use and benefit and the use and benefit of
its successors, legal representatives and assigns, to the full end of the term or terms
for which Letters Patent may be granted and/or extended, as fully and entirely as the
same would have been held and enjoyed by Assignor, had this assignment not been
made.

AND the license reserved to the Contractor shall extend to all existing and future associated and affiliated companies, if any, within the corporate structure of Contractor is a part, and shall be assignable to the successor of that part of Contractor's business to which such invention pertains.

AND for the same consideration, Assignor hereby represents and warrants to the Government, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to the Government under law or that have already been transferred to the Government, Assignor is the sole and lawful owner of the entire right, title and interest in and to the said inventions and application(s) for Letters Patent abovementioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

and with the Government, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions in the U.S. or any foreign country, without charge to the Government, its successors, legal representatives and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application(s) for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for

said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application(s) for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of the Government, its successors, legal representatives and assigns.

AND the Assignor does hereby also grant unto the Government, the right to claim priority to the application(s) identified above.

AND the Assignor hereby further agrees 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(s) and of any continuation, division, or substitution of the application(s), or any application(s) 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.

AND Assignor hereby grants the practitioners at Customer Number 26384 (Naval Research Laboratory) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office and any foreign patent office for recordation of this document.

Date: 7/05/2016 Si

Signature: /

Philip A. Féerst, Assignor

President, P.A.F. Engineering

Associates

ASSIGNMENT BY INVENTORS (UNITED STATES PATENTS)

THIS ASSIGNMENT, made by Ronald L. Sutton; Stephen M. Koss; and Robert W. Baldauff (hereinafter referred to as Assignors), residing at 2032 Boyd's Trail, Owings, Maryland 20736; 7705 Green Garland Drive, Springfield, Virginia 22153; and 27972 Cathedral Drive, Mechanicsville, Maryland 20659, respectively;

WHEREAS, Assignors, while employed by the Government of the United States, together with Adam Thurn and Philip A. Feerst, have invented certain new and useful improvements in a Flexible Pressure Line Twist Capsule Rotary Union for Steerable Spacecraft Radiator, set forth in a Provisional Application No. 62/137167 filed on March 23, 2015 and in U.S. Application No. 15/079,047 filed on March 23, 2016;

WHEREAS, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application(s) for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

WHEREAS, by acquiring the Assignors' entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with the Assignors as allowed by law;

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the Assignors' entire right, title, and interest therein, including the foreign rights; and

NOW, THEREFOR, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have assigned, transferred and set over, and by these presents does assign, transfer and set over, unto the Government, its successors, legal representatives and assigns, Assignors' entire right, title and interest in and to the above-mentioned inventions and application(s) for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application(s), and any and all Letters

Patent in the United States which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, the same to be held and enjoyed by the Government, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to the Government, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to the Government under law or that have already been transferred to the Government, Assignors are co-owners of the entire right, title and interest in and to the said inventions and application(s) for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with the Government, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions in the U.S. or any foreign country, without charge to the Government, its successors, legal representatives and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application(s) for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application(s) for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and
Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee

AND the Assignors hereby also grant unto the Government, the right to claim priority to the applications identified above.

AND the Assignors 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(s) and of any continuation, division, or substitution of the application(s), or any application(s) 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.

AND Assignors hereby grant all practitioners at Customer Number 26384 (Naval Research Laboratory) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 7/5/2016	Signature: Ronald L. Sutton, Assignor
Date:	Signature: Stephen M. Koss, Assignor
Date:	Signature: Robert W. Baldauff, Assignor

ASSIGNMENT BY INVENTORS (UNITED STATES PATENTS)

THIS ASSIGNMENT, made by Ronald L. Sutton; Stephen M. Koss; and Robert W. Baldauff (hereinafter referred to as Assignors), residing at 2032 Boyd's Trail, Owings, Maryland 20736; 7705 Green Garland Drive, Springfield, Virginia 22153; and 27972 Cathedral Drive, Mechanicsville, Maryland 20659, respectively;

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WHEREAS, by acquiring the Assignors' entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with the Assignors as allowed by law;

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the Assignors' entire right, title, and interest therein, including the foreign rights; and

NOW, THEREFOR, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have assigned, transferred and set over, and by these presents does assign, transfer and set over, unto the Government, its successors, legal representatives and assigns, Assignors' entire right, title and interest in and to the above-mentioned inventions and application(s) for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application(s), and any and all Letters

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Patent in the United States which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, the same to be held and enjoyed by the Government, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to the Government, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to the Government under law or that have already been transferred to the Government, Assignors are co-owners of the entire right, title and interest in and to the said inventions and application(s) for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with the Government, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions in the U.S. or any foreign country, without charge to the Government, its successors, legal representatives and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application(s) for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any, application(s) for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

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AND Assignors hereby grant all practitioners at Customer Number 26384 (Naval Research Laboratory) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:	Sigr	nature: Ronald L. Sutton, Assignor
Date:	<u> 1516</u> sign	nature: Stephen M. Ross, Assignor
Date:	Sign	nature: Robert W. Baldauff, Assignor

ASSIGNMENT BY INVENTORS (UNITED STATES PATENTS)

THIS ASSIGNMENT, made by Ronald L. Sutton; Stephen M. Koss; and Robert W. Baldauff (hereinafter referred to as Assignors), residing at 2032 Boyd's Trail, Owings, Maryland 20736; 7705 Green Garland Drive, Springfield, Virginia 22153; and 27972 Cathedral Drive, Mechanicsville, Maryland 20659, respectively;

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WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the Assignors' entire right, title, and interest therein, including the foreign rights; and

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Patent in the United States which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, the same to be held and enjoyed by the Government, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this assignment not been made.

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AND Assignors hereby request the Commissioner of Patent and
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AND the Assignors 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(s) and of any continuation, division, or substitution of the application(s), or any application(s) 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.

AND Assignors hereby grant all practitioners at Customer Number 26384 (Naval Research Laboratory) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:	Signature:
	Ronald L. Sutton, Assignor
Date:	Signature: Stephen M. Koss, Assignor
Date:	Signature: Robert W. Baldauff, Assignor