

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3853440

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	MICHAEL J. TOUMA JR.	04/28/2016
RECEIVING PARTY DATA		
Name:	ORBITAL ATK, INC.	
Street Address:	4700 NATHAN LANE	
Internal Address:	MN07-LW58	
City:	PLYMOUTH	
State/Country:	MINNESOTA	
Postal Code:	55442	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15139233
CORRESPONDENCE DATA		
Fax Number:	(801)531-9168	
<i>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.</i>		
Phone:	801-532-1922	
Email:	bknielsen@TraskBritt.com	
Correspondent Name:	TRASKBRITT	
Address Line 1:	P.O. BOX 2550	
Address Line 4:	SALT LAKE CITY, UTAH 84110	
ATTORNEY DOCKET NUMBER:	2507-P13181US	
NAME OF SUBMITTER:	GREGORY C. BAKER	
SIGNATURE:	/GREGORY C. BAKER /	
DATE SIGNED:	04/29/2016	
Total Attachments: 2		
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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does hereby:

SELL, ASSIGN AND TRANSFER to **ORBITAL ATK, INC.** ("ASSIGNEE"), a corporation of the State of Delaware, having a place of business at 4700 Nathan Lane, MN07-LW58, Plymouth, MN 55442, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements that are disclosed in the **Application for United States Letters Patent** that has been executed by each undersigned ASSIGNOR concurrently herewith, and titled **HEAT EXCHANGERS, WELD CONFIGURATIONS FOR HEAT EXCHANGERS AND RELATED SYSTEMS AND METHODS**, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof that have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents that have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;

AUTHORIZE the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to and in the name of the ASSIGNEE;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement or encumbrance affecting the rights and property herein conveyed has been or will be made or entered into by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this Assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible that the ASSIGNEE shall consider desirable for vesting title to such improvements in the ASSIGNEE, and to secure, maintain, defend and enforce valid and enforceable patent protection for such improvements;

AGREE AND ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of the ASSIGNEE.

ASSIGNOR:

Michael J. Touma Jr.

Date: 4/28/2016

Michael J. Touma Jr.

Residing at: 15671 87th TRL N., Palm Beach Gardens, FL 33418

COUNTY OF Palm Beach)
: SS.
STATE OF FLORIDA)



JOSEPH L. GARRETT
MY COMMISSION # EE 205513
EXPIRES: June 24, 2016
Bonded Thru Budget Notary Services

On this 28th day of April, 2016, before me personally appeared MICHAEL J. TOUMA JR., to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

Joseph L. Garrett
Notary Public in and for said County and State

My Commission Expires:

June 24, 2016