## 506345856 11/10/2020 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6392610

		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	DATA			
		Name	Execution Date	
FREDERICK J. LISY			12/16/2014	
ANTHONY OPPERMA	N		12/15/2014	
DAVID D. DASHEVSK	Y		12/15/2014	
RECEIVING PARTY D	ΑΤΑ			
Name:	ORBITA	AL RESEARCH INC.		
Street Address:	4415 El	JCLID AVE., SUITE 500		
City:	CLEVE	AND		
State/Country:	ОНЮ			
Postal Code:	44103			
PROPERTY NUMBERS Total: 1		Number	7	
Property Type Application Number:		17093706	-	
		17033700		
CORRESPONDENCE	DATA			
	(	216)649-0347		
Fax Number: Correspondence will	be sent to	the e-mail address first; if that is un		
Fax Number: Correspondence will using a fax number, i	be sent to f provided	,		
Fax Number: Correspondence will	be sent to f provided	the e-mail address first; if that is un ; if that is unsuccessful, it will be se		
Fax Number: <i>Correspondence will using a fax number, i</i> Phone:	be sent to f provided (	<i>the e-mail address first; if that is un; if that is unsuccessful, it will be se</i> 216) 649-0376		
Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email:	be sent to f provided ( ;	<i>the e-mail address first; if that is un</i> ; <i>if that is unsuccessful, it will be se</i> 216) 649-0376 kolkowski@orbitalresearch.com		
Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name	be sent to f provided ( ;	<i>the e-mail address first; if that is un; ; if that is unsuccessful, it will be se</i> (216) 649-0376 (olkowski@orbitalresearch.com BRIAN KOLKOWSKI		
Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1:	be sent to f provided ( : :	<i>the e-mail address first; if that is un;</i> <i>; if that is unsuccessful, it will be se</i> 216) 649-0376 kolkowski@orbitalresearch.com BRIAN KOLKOWSKI 4415 EUCLID AVENUE, SUITE 500		
Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4:	be sent to f provided : : : NUMBER:	<i>the e-mail address first; if that is un; ; if that is unsuccessful, it will be se</i> 216) 649-0376 kolkowski@orbitalresearch.com BRIAN KOLKOWSKI 1415 EUCLID AVENUE, SUITE 500 CLEVELAND, OHIO 44103		
Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER	be sent to f provided : : : NUMBER:	the e-mail address first; if that is un ; if that is unsuccessful, it will be se 216) 649-0376 kolkowski@orbitalresearch.com BRIAN KOLKOWSKI 1415 EUCLID AVENUE, SUITE 500 CLEVELAND, OHIO 44103 ORB-165		
Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4:	be sent to f provided : : : NUMBER:	the e-mail address first; if that is un ; if that is unsuccessful, it will be se 216) 649-0376 kolkowski@orbitalresearch.com BRIAN KOLKOWSKI 4415 EUCLID AVENUE, SUITE 500 CLEVELAND, OHIO 44103 ORB-165 MARK PENNINGTON		
Fax Number: <i>Correspondence will</i> <i>using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE:	be sent to f provided : : : NUMBER:	the e-mail address first; if that is un ; if that is unsuccessful, it will be se 216) 649-0376 kolkowski@orbitalresearch.com BRIAN KOLKOWSKI 4415 EUCLID AVENUE, SUITE 500 CLEVELAND, OHIO 44103 ORB-165 MARK PENNINGTON /Mark Pennington/		
Fax Number: <i>Correspondence will</i> <i>using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 4	be sent to f provided : : : : :	the e-mail address first; if that is un ; if that is unsuccessful, it will be se 216) 649-0376 kolkowski@orbitalresearch.com BRIAN KOLKOWSKI 4415 EUCLID AVENUE, SUITE 500 CLEVELAND, OHIO 44103 ORB-165 MARK PENNINGTON /Mark Pennington/		
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Fax Number: <i>Correspondence will</i> <i>using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 4 source=ORB-165_10No source=ORB-165_10No	be sent to f provided ( ) : : : : : : : : : : : : : : : : : :	the e-mail address first; if that is un ; if that is unsuccessful, it will be se 216) 649-0376 kolkowski@orbitalresearch.com BRIAN KOLKOWSKI 4415 EUCLID AVENUE, SUITE 500 CLEVELAND, OHIO 44103 ORB-165 MARK PENNINGTON /Mark Pennington/ 11/10/2020 ent-assignment-w-CS#page1.tif		

RECORDATION FORM COVER SHEET				
PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.				
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)			
Frederick J. Lisy	Name: Orbital Research Inc.			
Anthony Opperman	Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s):	Street Address: 4415 Euclid Ave. Ste. 500			
Execution Date(s) 2014-12-15, 2014-12-16				
Assignment Merger				
Security Agreement Change of Name	City: Cleveland			
Joint Research Agreement	State: OH			
Government Interest Assignment				
Executive Order 9424, Confirmatory License	Country: US Zip: 44103			
Other	Additional name(s) & address(es) attached? 🗌 Yes 🔳 No			
4. Application or patent number(s):	document serves as an Oath/Declaration (37 CFR 1.63).			
A. Patent Application No.(s)	B. Patent No.(s)			
17/093,706				
Additional numbers attached? 🔲 Yes 🔳 No				
5. Name and address to whom correspondence	6. Total number of applications and patents			
concerning document should be mailed: Name: Brian M. Kolkowski	involved: <u>1</u>			
Name: Dhar M. Ronowski	<b>7. Total fee</b> (37 CFR 1.21(h) & 3.41) \$ <u>0</u>			
Internal Address:				
	Authorized to be charged to deposit account			
Street Address: 4415 Euclid Ave. Ste. 500	Enclosed			
	None required (government interest not affecting title)			
City: Cleveland	8. Payment Information			
State: OHZip: 44103				
Phone Number: <u>(</u> 216) 649-0376				
Docket Number: <u>ORB-165</u>	Deposit Account Number			
Email Address:_kolkowski@orbitalresearch.com	Authorized User Name			
9. Signature: /Brian Kolkowski/	11/10/2020			
Signature	Date			
Brian Kolkowski	Total number of pages including cover sheet, attachments, and documents:			
Name of Person Signing sneet, attachments, and documents:				
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450				
	PATENT			

REEL: 054319 FRAME: 0697

	Assignment of Rights, Title : (Multiple inventors		Docket No. ORB-114			
This is an A	ssignment of the following rights, t	itle and interest: (check all that apply):	******			
I	United States of America rights, title and interest in the invention					
2						
	United States Patent Application Serial No.					
	Date of Execution:	Date of Filing:				
	United States Provisional Patent	Application Serial No.				
	International (PCT) Patent Appl	ication Serial No.				
	Other (specify)	·				
		ring system, devices and methods				
nventors (a	ssignors)					
	Name	Address				
Frederick	J. Lisy	27201 Edgecliff Dr.	Euclid OH 44132			
	Opperman	1001 Huron Rd. East	Cleveland OH 44105			
David D.	Dashevsky	2082 E. 4th St. Apt. 408	Cleveland OH 44115			
· ····································						
Issignee						
	Name	Address				
Orbital Re	esearch Inc.	4415 Euclid Ave. Ste. 500				

Cleveland

44103

ОН

## REEL: 054319 FRAME: 0698

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto;

And we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for said Invention to said Assignce, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Name	Signature/Dat	'e .
Frederick J. Lisy	Ruzzte	12/16/2014
Anthony Opperman	arthan Adrexon	12/1/5/14
David D. Dashevsky		12/15/14

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Assignment of Rights, Title and Interest in Invention (Multiple inventors; single assignee)	Docket No. ORB-114			
<u>Notarization</u> (Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)				
Executed this 6 day of Decorber, in the year 2014 at	)			
State of OH	enior			
County of Cuyahoga				
Before me personally appeared Frederick J. Lisy who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this $H$ day of $D$ in the year $O$ $H$				
BRIAN M. KOLKOWSKI, ATTORNEY NOTARY PUBLIC, STATE OF CHIO MY COMMISSION HAS NO EXPIRATION DATE	ter C			
Executed this 15th day of December, in the year 20/4				
State of OH	4/2/ Mark Pennington			
State of OH County of Cuyahoga	ATTORNEY AT LAW NOTARY PUBLIC STATE OF OHIO			
Before me personally appeared Anthony Opperman who acknowledged the foregoing instrument to be a free act and deed and also dores and the the Spille KONDAPPed to execute the same this 15 <sup>-12</sup> day of presenter , in the year of of on the Section 147.03 R. C.				
Notary Publ				
executed this 15th day of December, in the year 2014				
State of OH				
State of OH County of Cuyahoga Before me personally appeared David D. Dashevsky	MARK PENNINGTON ATTORNEY AT LAW NOTARY PUBLIC STATE OF OHIO			
Before me personally appeared David D. Dashevsky who acknowledged the foregoing instrument to be a free act and deed and also is the execute the same this $15^{\pm\pm}$ day of $0^{\pm\pm}$ , in the year $7^{\pm}$ is the of $1^{\pm}$	Hint Se of the net Hand and the Section 147.03 R. C			
(Notary Publ (Page 3 of 3 ]	PATENT			

## RECORDED: 11/10/2020

PATENT REEL: 054319 FRAME: 0700