

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6564905

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL JANKOWSKI	12/10/2019
EDWARD J RAPP	11/26/2019
RECEIVING PARTY DATA	
Name:	ORBITAL RESEARCH INC.
Street Address:	4415 EUCLID AVENUE SUITE 500
City:	CLEVELAND
State/Country:	OHIO
Postal Code:	44103
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17182362
CORRESPONDENCE DATA	
Fax Number:	(216)649-0347
<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:	2166490376
Email:	kolkowski@orbitalresearch.com
Correspondent Name:	BRIAN KOLKOWSKI
Address Line 1:	4415 EUCLID AVENUE SUITE 500
Address Line 4:	CLEVELAND, OHIO 44103
ATTORNEY DOCKET NUMBER:	ORB-171
NAME OF SUBMITTER:	MARK PENNINGTON
SIGNATURE:	/Mark Pennington/
DATE SIGNED:	02/23/2021
Total Attachments: 5	
source=ORB-171_23Feb2021_parent-assignment-w-CS#page1.tif	
source=ORB-171_23Feb2021_parent-assignment-w-CS#page2.tif	
source=ORB-171_23Feb2021_parent-assignment-w-CS#page3.tif	
source=ORB-171_23Feb2021_parent-assignment-w-CS#page4.tif	
source=ORB-171_23Feb2021_parent-assignment-w-CS#page5.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)

Michael Jankowski, Edward J. Rapp

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 11/26/2019, 12/10/2019

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other Employment agreement, employed at time of original filing

2. Name and address of receiving party(ies)

Name: Orbital Research Inc.

Internal Address: _____

Street Address: 4415 Euclid Ave., Suite 500

City: Cleveland

State: OH

Country: US Zip: 44103

Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s):

This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

B. Patent No.(s)

17/182,362

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Brian Kolkowski

Internal Address: _____

Street Address: 4415 Euclid Ave. Suite 500

City: Cleveland

State: OH Zip: 44103

Phone Number: (216) 649-0376

Docket Number: ORB-171

Email Address: kolkowski@orbitalresearch.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 0.00

- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name _____

9. Signature: /Brian Kolkowski/

2/23/2021

Signature

Date

Brian Kolkowski

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT

REEL: 055364 FRAME: 0174

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

Docket No.
ORB-143

This is an Assignment of the following rights, title and interest: (check all that apply):

- United States of America rights, title and interest in the invention*
- Foreign rights, title and interest in the invention*
- United States Patent Application Serial No.* 15/869,208
Date of Execution: 7/3/2012, 11/26/2019 *Date of Filing:* 1/12/2018
- United States Provisional Patent Application Serial No.* _____
- United States Patent No(s).* _____
- International (PCT) Patent Application Serial No.* _____
- Other (specify)* _____

Title of the Invention

Multi-IMU guidance system and methods for high-accuracy location and guidance performance in GPS denied and/or degraded environments

Inventors (assignors)

<i>Name</i>	<i>Address</i>
Michael Jankowski	2603 Black Lake Blvd. Winter Garden, FL 34787
Edward J. Rapp	2224 N. St. James Pkwy. Cleveland Heights, OH 44106

Assignee

<i>Name</i>	<i>Address</i>
Orbital Research Inc.	4415 Euclid Ave., Suite 500 Cleveland OH 44103

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

Docket No.
ORB-143

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;

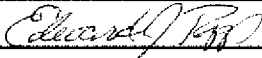
Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

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, unto said Assignee;

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 Assignee, 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.

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

<i>Name</i>	<i>Signature/Date</i>
Michael Jankowski	
Edward J. Rapp	 11/26/19

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

Docket No.
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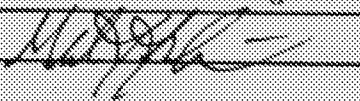
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And we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

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.

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

Name	Signature/Date
Michael Jankowski	 12/10/19
Edward J. Rapp	

PATENT

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

Docket No.
ORB-143

Notarization

(Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)

Executed this _____ day of _____, in the year _____
at _____

(Signature of Inventor)

State of OH
County of Cuyahoga

Before me personally appeared Michael Jankowski
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 _____ day of _____, in the year _____

(Notary Public)

Executed this 26th day of November, in the year 2019
at _____

(Signature of Inventor)

State of OH
County of Cuyahoga

Before me personally appeared Edward J. Rapp
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 26th day of November, in the year 2019



MARK PENNINGTON
ATTORNEY AT LAW
NOTARY PUBLIC
STATE OF OHIO
My Comm. Has No
Expiration Date
Section 147.03 R.C.

(Signature of Notary Public)

(Notary Public)

Executed this _____ day of _____, in the year _____
at _____

(Signature of Inventor)

State of OH
County of Cuyahoga

Before me personally appeared _____
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 _____ day of _____, in the year _____

(Notary Public)