### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Srikanth Vasudevan	05/16/2011
Frederick J. Lisy	05/16/2011
Mike Ward	05/16/2011

## RECEIVING PARTY DATA

Name:	Orbital Research Inc.
Street Address:	4415 Euclid Ave. Ste. 500
City:	Cleveland
State/Country:	ОНЮ
Postal Code:	44103

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12983205

### CORRESPONDENCE DATA

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Address Line 4: Cleveland, OHIO 44103

ATTORNEY DOCKET NUMBER:	ORB-083
NAME OF SUBMITTER:	Robert Knecht Schmidt

# Total Attachments: 5

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Form PTO-1595 (Rev. 03-09) OMB No. 0651-0027 (exp. 03/31/2009)

RECORDATION FO PATENT	RM COVER SHEET ORB-083
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies) Srikanth Vasudevan Frederick J. Lisy Mike Ward	Name and address of receiving party(ies)     Name: Orbital Research Inc.     Internal Address:
Additional name(s) of conveying party(les) attached? Yes ✓ No  3. Nature of conveyance/Execution Date(s):  Execution Date(s) May 16, 2011	Street Address: 4415 Euclid Ave. St. 500
Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License	City: Cleveland  State: Ohio  Country: United States Zip: 44103
A. Patent Application No.(s) 12/983.205	Additional name(s) & address(es) attached? Yes No document is being filed together with a new application.  B. Patent No.(s)  ached? Yes No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Brian M. Kolkowski	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40
Internal Address:	Authorized to be charged to deposit account
Street Address: 4415 Euclid Ave. St. 500	Enclosed  None required (government interest not affecting title)
City: Cleveland	8. Payment Information
State: OH Zip: 44103	
Phone Number: <u>(216)</u> 649-0376	Densit Assourt Number
Fax Number: <u>(216) 649-0397</u>	Deposit Account Number
Email Address: kolkowski@orbitalresearch.com	Authorized User Name
9. Signature: Talut Kunt Reh	7011-05-18
9. Signature: That Reh Signature Robert Knecht Schmidt Name of Person Signing	Date  Total number of pages including cover 5 sheet, attachments, and documents:

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

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

Docket No. ORB-083

This is an As	ssignment of the following rights	, title and interest: (check all that apply):	
<b>X</b>	United States of America rights	s, title and interest in the invention	
<b>(X)</b>	Foreign rights, title and interes	st in the invention	
X	United States Patent Application	n Serial No. 12/983,205	
	Date of Execution:	Date of Filing: 2010-1	2-31
	United States Provisional Pater	nt Application Serial No.	
	United States Patent No(s).		
	International (PCT) Patent Ap	plication Serial No.	
	20.45		
Fitle of the I	nvention entrol and power system		
nventors (a:	ssignors) Name	Addres.	2
Edmund .	J. Santavicca Jr.	1259 Edwards Ave	Lakewood OH 44107
Srikanth \	Vasudevan	2860 Detroit Avenue #109	Cleveland OH 44113
Frederick	J. Lisy	27201 Edgecliff Drive	Euclid OH 44132
Mike War	d	802 Bentley Place	Tallmadge OH 44278
Assignee	Name	Addres	<u>S</u>
Orbital Re	esearch Inc.	4415 Euclid Ave. St. 500	

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

Docket No. ORB-083

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)

Name	Signature/Date
Edmund J. Santavicca Jr.	
Srikanth Vasudevan	Sin DN 5/16/2011
Frederick J. Lisy	でかれて大人 5/14/2011
Mike Ward	Mih Wal 5/16/2011

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PATENT REEL: 026299 FRAME: 0095

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

Docket No. ORB-083

	day of	, in the year
Executed this at	uay oj	, in the year
State of Ohio		(Signature of Inventor)
** ***********************************		
County of Cuyahoga		
	red Edmund J. Santavicca	
who acknowledged the fore execute the same this	egoing instrument to be a fi day of	ree act and deed and also represented that he or she is authorized to , in the year
		(Notary Public)
Executed this 16	, day of May	, in the year 201
at	U	Smit V
	8	(Signature of Inventor)
State of Ohio		CAROLE A. NITTSKOFF
County of Cuyahoga		NOTARY PUBLIC for Cuyahoga County, OH My Commission Expires June 8, 2012
Before me personally appea		
	egoing instrument to be a fi (b day of MAY	ree act and deed and also represented that he or she is authorized to , in the year 2011
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		au (cl stof)
Executed this	6 day of May	, in the year 2011
at .	/	
		STANT?
State of Ohio		(Signature of Inventor)  CAROLE A. NITTSKOFA  NOTARY PUBLIC for Cuyahoga County OH
State of Ohio County of Cuyahoga Before me personally appea	red Frederick J. Lisy egoing instrument to be a f.	CAROLE A. NITTSKOFA NOTARY PUBLIC for Cuyahoga County, OH My Commission Expires June 8, 2012
State of Ohio County of Cuyahoga Before me personally appea who acknowledged the fore	ared Frederick J. Lisy egoing instrument to be a f. day of Many	CAROLE A. NITTSKOFA NOTARY PUBLIC for Curabona Car
State of Ohio County of Cuyahoga Before me personally appea who acknowledged the fore	egoing instrument to be a f.	CAROLE A. NITTSKOFA NOTARY PUBLIC for Cuyahoga County, OH My Commission Expires June 8, 2012  Tree act and deed and also represented that he or she is authorized to

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

Docket No. ORB-083

, *	on is not necessary, it will be cons	Notarization idered prima facie evidence of execution pursuant to 35 U.S.C. 261.)
Executed this /(¿	the day of May	, in the year 20//
		Mil Ward
State of Ohio		DANCE A MITTSKOFF
County of Cuyahoga		NOTARY PUBLIC for Cuyahoga County, OH My Commission Expires June 8, 2012.
Before me personally appea	rred Mike Ward	
who acknowledged the for execute the same this	egoing instrument to be a day of	free act and deed and also represented that he or she is authorized to in the year  (Notany Public)
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: :	÷	(Signature of Inventor)
State of Ohio		
County of Cuyahoga Before me personally appea who acknowledged the for		free act and deed and also represented that he or she is authorized t in the year
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