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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)

Crawford F. Smith, III
Steve Bergerson

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

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

Execution Date(s) September 18, 2008

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Rolls-Royce North American Technologies, Inc.

Internal Address: Mail Drop X12

Street Address: 2059 S. Tibbs Avenue

City: Indianapolis

State: Indiana

Country: U.S.A. Zip: 46241

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

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: John H. Allie, Esq.

Internal Address: Xrieg DeVault LLP

Street Address: One Indiana Square, Suite 2800

City: Indianapolis

State: Indiana Zip: 46204

Phone Number: (317) 238-6268

Fax Number: (317) 636-1507

Email Address: jpdocketing@kdlegal.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- ☐ Authorized to be charged to deposit account
☒ Enclosed PTO 2038
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name _____

9. Signature:

Signature
John H. Allie
Name of Person Signing

September 22, 2008

Date

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

5

ASSIGNMENT

WHEREAS, Crawford F. Smith, III of 311 4th Court East, Carmel, Indiana 46033; and Steve Bergeron of 4501 Manning Road, Indianapolis, Indiana 46228; hereinafter referred to as Assignors, have made one or more new and useful inventions in THRUST VECTOR SYSTEM for which Assignors have made or will make application for Letters Patent of the United States (hereinafter the "Application"); and

WHEREAS, Rolls-Royce North American Technologies, Inc., hereinafter referred to as Assignee, a corporation of the State of Delaware, having a principal place of business at 2059 S. Tibbs Avenue, Mail Drop X12, Indianapolis, Indiana 46241, desires to acquire all of the entire right, title and interest in, to and under the one or more inventions disclosed, described and claimed or intended so to be in the Application, and in, to and under the Application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefore and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignors in hand paid, the receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under the one or more inventions disclosed, described and claimed or intended so to be in the Application entitled THRUST VECTOR SYSTEM, and any and all other applications thereon and arising therefrom, including any and all applications claiming the benefit thereof, and any and all divisions, continuations, and continuations-in-part thereof, and

any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignors acknowledge that the Application was executed concurrently herewith unless a different execution date is indicated in item (a) below. Assignors hereby authorize Assignee, its counsel, or its agents to fill-in some or all of the following list of information items (a) through (c) at the discretion of the Assignee, its counsel, or its agents:

- (a) Execution Date of the Application: September 18, 2008
- (b) Patent Office Number of the Application: _____
- (c) Filing Date of the Application: September 22, 2008

Assignors hereby authorize and request the Honorable Assistant Secretary and Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignors agree to assign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignor's hand this 20 day of August, 2008.

Crawford F. Smith, III
Crawford F. Smith, III

STATE OF INDIANA)
) : SS
COUNTY OF MARION)

Before me, a Notary Public, in and for said County and State, personally appeared Crawford F. Smith, III, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 20 day of August, 2008.

Cynthia A. Baxter
Notary Public


Printed: Cynthia A. Baxter

Resident of Johnson County ..

My Commission Expires:

September 25, 2015

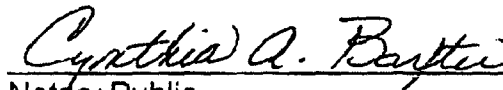
WITNESS Assignor's hand this 18 day of September, 2008.


Steve Bergeron

STATE OF INDIANA)
) : SS
COUNTY OF MARION)

Before me, a Notary Public, in and for said County and State, personally appeared Steve Bergeron, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 18 day of September, 2008.


Notary Public

Printed: Cynthia A. Baxter

Resident of Johnson County

My Commission Expires:

September 25, 2015