

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Thomas Baby Sebastian</td> <td>11/07/2012</td> </tr> <tr> <td>Eric Daniel Buehler</td> <td>11/07/2012</td> </tr> <tr> <td>Benjamin Thomas Occhipinti</td> <td>11/07/2012</td> </tr> <tr> <td>Konrad Robert Kuczynski</td> <td>11/07/2012</td> </tr> <tr> <td>Richard Shawn Kelly</td> <td>11/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Thomas Baby Sebastian	11/07/2012	Eric Daniel Buehler	11/07/2012	Benjamin Thomas Occhipinti	11/07/2012	Konrad Robert Kuczynski	11/07/2012	Richard Shawn Kelly	11/07/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>GE Aviation Systems LLC</td> </tr> <tr> <td>Street Address:</td> <td>3290 Patterson Avenue</td> </tr> <tr> <td>City:</td> <td>Grand Rapids</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>49512</td> </tr> </table>		Name:	GE Aviation Systems LLC	Street Address:	3290 Patterson Avenue	City:	Grand Rapids	State/Country:	MICHIGAN	Postal Code:	49512		
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CORRESPONDENCE DATA													
<p>Fax Number: 6167421010  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 616-742-3500</p> <p>Email: patents@mcgarrybair.com</p> <p>Correspondent Name: McGarry Bair PC</p> <p>Address Line 1: 32 Market Avenue, SW</p> <p>Address Line 2: Suite 500</p> <p>Address Line 4: Grand Rapids, MICHIGAN 49503</p>													
ATTORNEY DOCKET NUMBER:	261549/71966-0139												
NAME OF SUBMITTER:	Joel E. Bair												

CH \$40.00 13673054

Total Attachments: 7

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**PATENT**

**REEL: 029272 FRAME: 0899**

COMBINED DECLARATION AND GLOBAL ASSIGNMENT  
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

**SUBSTANCE SUBTRACTION IN A SCENE BASED ON HYPERSPECTRAL  
CHARACTERISTICS**

- ☒ the specification of which is attached hereto OR  
☐ United States application or PCT international application number \_\_\_\_\_, as  
filed on \_\_\_\_\_, as  
amended on [date] (if applicable).  
(We hereby authorize and request the Company or its delegated attorneys or agents to  
insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable  
under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application,  
including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this  
application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material  
information which became available between the filing date of the prior application and the filing  
date of the continuation-in-part application.

In accordance with our obligation(s) under an Employee Innovation and Proprietary Information  
Agreement or (as applicable) arising out of other agreements (such as, but not limited to, the  
Services Agreement between General Electric Company, a New York corporation, and our  
employers), and/or for other good and valuable consideration of which we acknowledge receipt,  
I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Thomas	Baby	Sebastian	of	Chatham	New Jersey	US
Eric	Daniel	Buehler	of	Grand Rapids	Michigan	US
Benjamin	Thomas	Occhipinti	of	Grand Rapids	Michigan	US
Konrad	Robert	Kuczynski	of	Grand Rapids	Michigan	US
Richard	Shawn	Kelly	of	Grand Rapids	Michigan	US

hereby sell and assign to:

Name of Company: <b>GE Aviation Systems LLC</b>
Entity Type (optional): <b>a Delaware limited liability company</b>
Address: <b>3290 Patterson Avenue, Grand Rapids, Michigan, 49512, USA</b>

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

INVENTOR 1

Signature: Thomas  
Thomas Baby Sebastian

Date: 11/7/2012

Witnessed by: James V. Miller  
Signature

Date: 11/7/2012

JAMES V MILLER  
Printed Name of Witness

Witnessed by: YI XU  
Signature

Date: 11/7/2012

YI XU  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Thomas Baby Sebastian

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Thomas Baby Sebastian, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_

(Notary Public)

INVENTOR 2

Signature: [Signature]  
Eric Daniel Buehler

Date: 11/7/12

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

[Signature]  
Eric Daniel Buehler

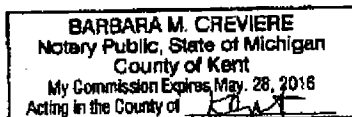
Date: 11/7/12

STATE OF Michigan  
COUNTY OF Kent ss.

This 7<sup>th</sup> day of November, 2012 before me personally came the above-named Eric Daniel Buehler, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal [Signature]

(Notary Public)



INVENTOR 3

Signature: *Ben Thomas Occhipinti*  
Benjamin Thomas Occhipinti

Date: Nov - 7 - 2012

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

*Ben Thomas Occhipinti*  
Benjamin Thomas Occhipinti

Date: Nov - 7 - 2012

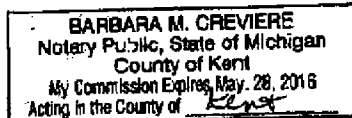
STATE OF Michigan  
COUNTY OF Kent ss.

This 7<sup>th</sup> day of November, 2012, before me personally came the above-named Benjamin Thomas Occhipinti, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

*Barbara M. Crevere*

(Notary Public)



INVENTOR 4

Signature: \_\_\_\_\_

Konrad Robert Kuczynski

Date: \_\_\_\_\_

11/07/12

Witnessed by: \_\_\_\_\_

Signature

Date: \_\_\_\_\_

Printed Name of Witness

Witnessed by: \_\_\_\_\_

Signature

Date: \_\_\_\_\_

Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

Signature: \_\_\_\_\_  
Konrad Robert Kuczynski

Date: \_\_\_\_\_

11/07/12

STATE OF Michigan

ss.

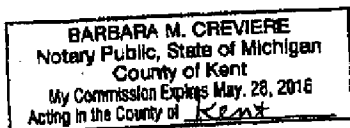
COUNTY OF Kent

This 7<sup>th</sup> day of November, 2012 before me personally came the above-named Konrad Robert Kuczynski, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

Signature: \_\_\_\_\_  
Barbara M. Crevier

(Notary Public)





SUBSTANCE SUBTRACTION IN A SCENE BASED ON HYPERSPECTRAL CHARACTERISTICS

INVENTOR 5

Signature: Richard Shawn Kelly  
Richard Shawn Kelly

Date: 11/7/2012

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

Richard Shawn Kelly  
Richard Shawn Kelly

Date: 11/7/2012

STATE OF Michigan  
COUNTY OF Kent

ss.

This 7<sup>th</sup> day of November, 2012 before me personally came the above-named Richard Shawn Kelly, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

Barbara M. Crevere

(Notary Public)

