

## 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>Zhan Liu</td> <td>12/21/2012</td> </tr> <tr> <td>Bin Zhang</td> <td>12/21/2012</td> </tr> <tr> <td>Bruce Robert Ladeau</td> <td>12/25/2012</td> </tr> </tbody> </table> |                                  | Name          | Execution Date | Zhan Liu            | 12/21/2012 | Bin Zhang | 12/21/2012 | Bruce Robert Ladeau | 12/25/2012 |
| Name  | Execution Date                   |               |                |                     |            |           |            |                     |            |
| Zhan Liu  | 12/21/2012                       |               |                |                     |            |           |            |                     |            |
| Bin Zhang   | 12/21/2012                       |               |                |                     |            |           |            |                     |            |
| Bruce Robert Ladeau   | 12/25/2012                       |               |                |                     |            |           |            |                     |            |
| RECEIVING PARTY DATA  |                                  |               |                |                     |            |           |            |                     |            |
| Name:   | General Electric Company         |               |                |                     |            |           |            |                     |            |
| Street Address:   | 1 River Road                     |               |                |                     |            |           |            |                     |            |
| City:   | Schenectady                      |               |                |                     |            |           |            |                     |            |
| State/Country:  | NEW YORK                         |               |                |                     |            |           |            |                     |            |
| Postal Code:  | 12345                            |               |                |                     |            |           |            |                     |            |
| PROPERTY NUMBERS Total: 1   |                                  |               |                |                     |            |           |            |                     |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13728365</td> </tr> </tbody> </table>   |                                  | Property Type | Number         | Application Number: | 13728365   |           |            |                     |            |
| Property Type   | Number                           |               |                |                     |            |           |            |                     |            |
| Application Number:   | 13728365                         |               |                |                     |            |           |            |                     |            |
| CORRESPONDENCE DATA   |                                  |               |                |                     |            |           |            |                     |            |
| Fax Number:   | 2819704503                       |               |                |                     |            |           |            |                     |            |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |                                  |               |                |                     |            |           |            |                     |            |
| Phone:  | 281-970-4545                     |               |                |                     |            |           |            |                     |            |
| Email:  | dooley@fyiplaw.com               |               |                |                     |            |           |            |                     |            |
| Correspondent Name:   | Fletcher Yoder, c/o Tait Swanson |               |                |                     |            |           |            |                     |            |
| Address Line 1:   | PO Box 692289                    |               |                |                     |            |           |            |                     |            |
| Address Line 4:   | Houston, TEXAS 77269-2289        |               |                |                     |            |           |            |                     |            |
| ATTORNEY DOCKET NUMBER:   | 257107-1 (GEDE 0055)             |               |                |                     |            |           |            |                     |            |
| NAME OF SUBMITTER:  | Matthew C. Dooley                |               |                |                     |            |           |            |                     |            |
| This document serves as an Oath/Declaration (37 CFR 1.63).  |                                  |               |                |                     |            |           |            |                     |            |
| Total Attachments: 5  |                                  |               |                |                     |            |           |            |                     |            |

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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:

FIRMWARE UPGRADE ERROR DETECTION AND AUTOMATIC ROLLBACK

- the specification of which is attached hereto OR
- United States application or PCT international application number  
13/728,365 filed on December 27, 2012, 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 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,  
we,

| Inventor<br>First Name | Inventor<br>Middle<br>Name | Inventor Last<br>Name |    | Residence Town | Residence<br>State | Residence<br>Country |
|------------------------|----------------------------|-----------------------|----|----------------|--------------------|----------------------|
| Zhan                   |                            | Liu                   | of | Johns Creek    | GA                 | US                   |
| Bin                    |                            | Zhang                 | of | Suwanee        | GA                 | US                   |
| Bruce                  | Robert                     | Ladeau                | of | Hampton        | NH                 | US                   |

hereby sell and assign to:

|   |
|---|
| Name of Company: <i>General Electric Company</i>              |
| Entity Type (optional): <i>New York corporation</i>           |
| Address: <i>1 River Road, Schenectady, New York 12345 USA</i> |

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made and 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, reexaminations 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, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths 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: \_\_\_\_\_  
Zhan Liu

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

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**

*Zhan Liu*

Date: 12/21/2012

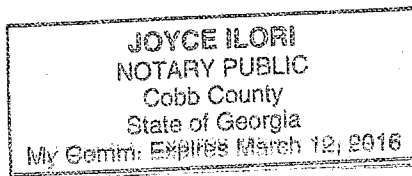
Zhan Liu

STATE OF GA  
COUNTY OF COBB ss.

This 21 day of DEC, 2012 before me personally came the above-named Zhan Liu, 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

*Joyce Ilori*  
(Notary Public)



INVENTOR 2

Signature: \_\_\_\_\_  
Bin Zhang

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

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**

\_\_\_\_\_  
Bin Zhang

Date: 12/21/12

STATE OF Georgia

ss.

COUNTY OF Gwinnett

This 21<sup>st</sup> day of December, 2012 before me personally came the above-named Bin Zhang, 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  
**JIHUN YOU**  
NOTARY PUBLIC  
Gwinnett County  
State of Georgia  
My Comm. Expires Nov. 28, 2015

\_\_\_\_\_  
(Notary Public)

INVENTOR 3

Signature: Bruce Robert Ladeau Date: 12/25/12  
Bruce Robert Ladeau

Witnessed by: David Smith Date: 12/25/12  
Signature  
DAVID SMITH

Printed Name of Witness

Witnessed by: Rachel Adams Date: 12/25/12  
Signature

Rachel Adams  
Printed Name of Witness

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

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

Bruce Robert Ladeau

STATE OF \_\_\_\_\_

ss.

COUNTY OF \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Bruce Robert Ladeau, 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)