

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5842491

|                                                                                                                                                                                                 |                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                   |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                              |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>        |
| JIANG HSIEH                                                                                                                                                                                     | 11/23/2016                   |
| GOPAL AVINASH                                                                                                                                                                                   | 11/23/2016                   |
| SAAD SIROHEY                                                                                                                                                                                    | 11/23/2016                   |
| XIN WANG                                                                                                                                                                                        | 11/23/2016                   |
| ZHYE YIN                                                                                                                                                                                        | 11/22/2016                   |
| BRUNO DE MAN                                                                                                                                                                                    | 11/23/2016                   |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                              |
| <b>Name:</b>                                                                                                                                                                                    | GENERAL ELECTRIC COMPANY     |
| <b>Street Address:</b>                                                                                                                                                                          | 1 RIVER ROAD                 |
| <b>City:</b>                                                                                                                                                                                    | SCHENECTADY                  |
| <b>State/Country:</b>                                                                                                                                                                           | NEW YORK                     |
| <b>Postal Code:</b>                                                                                                                                                                             | 12345                        |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                              |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                |
| Application Number:                                                                                                                                                                             | 16697904                     |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                              |
| <b>Fax Number:</b>                                                                                                                                                                              |                              |
| <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> |                              |
| <b>Phone:</b>                                                                                                                                                                                   | 262.606.7272                 |
| <b>Email:</b>                                                                                                                                                                                   | HCTechnologies@ge.com        |
| <b>Correspondent Name:</b>                                                                                                                                                                      | GE HEALTHCARE, IP DEPARTMENT |
| <b>Address Line 1:</b>                                                                                                                                                                          | 9900 W. INNOVATION DRIVE     |
| <b>Address Line 2:</b>                                                                                                                                                                          | MAIL CODE RP2131             |
| <b>Address Line 4:</b>                                                                                                                                                                          | WAUWATOSA, WISCONSIN 53226   |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 314036-US-4                  |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | JULIE KUNEY                  |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Julie Kuney/                |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 11/27/2019                   |
| This document serves as an Oath/Declaration (37 CFR 1.63).                                                                                                                                      |                              |

PATENT

**Total Attachments: 8**

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COMBINED DECLARATION AND GLOBAL ASSIGNMENT

FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor, I hereby declare that:

This declaration and assignment are directed to:

IMPROVED DEEP LEARNING MEDICAL SYSTEMS AND METHODS FOR IMAGE  
RECONSTRUCTION AND QUALITY EVALUATION

- ☒ 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).  
(I 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 me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in  
the application.

I 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.

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

I 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 my 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 my employer), and/or for other good and valuable consideration of which I  
acknowledge receipt, I,

| Inventor<br>First<br>Name | Inventor<br>Middle<br>Name | Inventor Last<br>Name |    | Residence<br>Town | Residence<br>State | Residence<br>Country |
|---------------------------|----------------------------|-----------------------|----|-------------------|--------------------|----------------------|
| Jiang                     |                            | Hsieh                 | of | Waukesha          | WI                 | US                   |
| Gopal                     |                            | Avinash               |    | San Ramon         | CA                 | US                   |
| Saad                      |                            | Sirohey               |    | Pewaukee          | WI                 | US                   |
| Xin                       |                            | Wang                  |    | Niskayuna         | NY                 | US                   |

|       |  |        |  |           |    |    |
|-------|--|--------|--|-----------|----|----|
| Zhye  |  | Yin    |  | Niskayuna | NY | US |
| Bruno |  | De Man |  | Niskayuna | NY | 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 my entire rights, titles and interests in and to the invention and improvements made or conceived by me described in the application(s) listed above and in the following table:

| Country of Filing | Type of Filing | Application Number | Filing Date | Title |
|-------------------|----------------|--------------------|-------------|-------|
|                   |                |                    |             |       |
|                   |                |                    |             |       |
|                   |                |                    |             |       |

(I 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, I will communicate to the Company or its representatives or nominees any facts known to me 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/assignor potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

INVENTOR

Signature: \_\_\_\_\_  
Jiang Hsieh

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**

Jiang Hsieh  
Jiang Hsieh

Date: 11/23/2016

STATE OF Wisconsin

ss.

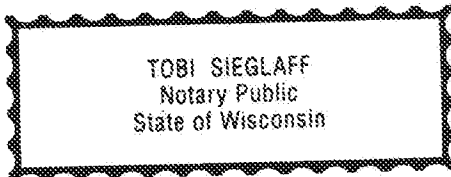
COUNTY OF Waukesha

This 23 day of November, 2016, before me personally came the above-named Jiang Hsieh, 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

Tobi Sieglaff

(Notary Public)



INVENTOR

Signature: Gopal Avinash  
Gopal Avinash

Date: 11/23/2016

Witnessed by: James F. Kohli  
Signature

Date: 11/23/2016

James F. Kohli  
Printed Name of Witness

Witnessed by: Matthew Potter  
Signature

Date: 11/23/2016

MATTHEW POTTER  
Printed Name of Witness

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

Gopal Avinash

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

STATE OF

COUNTY OF

ss.

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Gopal Avinash, 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

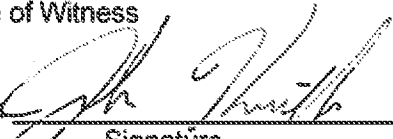
Signature:   
Saad Sirohey

Date: Nov 23 / 16

Witnessed by:   
Signature

Date: Nov 23, 2016

CHARLES A. BISORDI  
Printed Name of Witness

Witnessed by:   
Signature

Date: 11/23/2016

John Kosmotka  
Printed Name of Witness

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

\_\_\_\_\_  
Saad Sirohey Date: \_\_\_\_\_

STATE OF

SS.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Saad Sirohey, 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

Signature: Xin Wang  
Xin Wang

Date: 11/23/2016

Witnessed by: Xiaohui Chen  
Signature  
Printed Name of Witness

Date: 11/23/2016

Witnessed by: Eri Haneda  
Signature  
Printed Name of Witness

Date: 11/23/2016

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

\_\_\_\_\_  
Xin Wang Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Xin Wang, 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

Signature: [Signature]  
Zhye Yin

Date: 11/22/2016

Witnessed by: Yannan Jin  
Signature

Date: 11/22/2016

YANNAN JIN  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 11/22/2016

PAUL FITZGERALD  
Printed Name of Witness

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

\_\_\_\_\_  
Zhye Yin Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-name Zhye Yin, 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

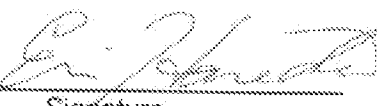
Signature:   
Bruno De Man

Date: 11/23/16

Witnessed by:   
Signature

Date: 11/23/16

AUE RW  
Printed Name of Witness

Witnessed by:   
Signature

Date: 11/23/2016

Eri Haneda  
Printed Name of Witness

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

\_\_\_\_\_  
Bruno De Man Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-name Bruno De Man, 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)