

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5305906

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK BRADSHAW KRAELING	12/21/2018
GLENN ROBERT SHAFFER	12/19/2018
EMAD ANDARAWIS ANDARAWIS	12/19/2018
GLEN WILLIAM BROOKSBY	12/19/2018
CHRISTOPHER GUSHEE	12/20/2018
JEFFREY MAYTON	12/18/2018
CHENG-PO CHEN	12/20/2018
NANCY CECELIA STOFFEL	12/19/2018
WYATT SMITH	12/21/2018
JOSE LUIS R. VIRGEN	12/18/2018
DANIEL L. OLSON	12/19/2018

RECEIVING PARTY DATA

Name:	GE GLOBAL SOURCING LLC
Street Address:	901 MAIN AVENUE
City:	NORWALK
State/Country:	CONNECTICUT
Postal Code:	06851

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16229305

CORRESPONDENCE DATA**Fax Number:** (314)584-4062*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.***Phone:** 314-584-4080**Email:** Docket@splglaw.com, gpodckt.mail@ge.com**Correspondent Name:** GE GPO- TRANSPORTATION- THE SMALL PATENT**Address Line 1:** 225 S. MERAMEC, SUITE 725**Address Line 4:** ST. LOUIS, MISSOURI 63105

ATTORNEY DOCKET NUMBER:	272741-7US (552-241US3)
NAME OF SUBMITTER:	CHRISTOPHER R. CARROLL
SIGNATURE:	/Christopher R. Carroll/
DATE SIGNED:	01/02/2019

Total Attachments: 13

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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:

MINING DETECTION SYSTEM AND METHOD

- the specification of which is attached hereto OR
- United States application or PCT international application number 16/229,305 filed on December 21, 2018, 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
Mark	Bradshaw	Kraeling	of	Melbourne	FL	US
Glenn	Robert	Shaffer	of	Erie	PA	US
Emad	Andarawis	Andarawis	of	Ballston Lake	NY	US
Glen	William	Brooksby	of	Glenville	NY	US
Christopher		Gushee	of	Marietta	GA	US

Jeffrey		Mayton	of	Winnabow	NC	US
Cheng-Po		Chen	of	Niskayuna	NY	US
Nancy	Cecelia	Stoffel	of	Schenectady	NY	US
Wyatt		Smith	of	Media	PA	US
Jose	Luis R.	Virgen	of	Salt Lake City	UT	US
Daniel	L.	Olson	of	New Berlin	WI	US

hereby sell and assign to:

Name of Company: <i>GE Global Sourcing LLC</i>
Entity Type (optional): <i>Delaware Limited Liability Company</i>
Address: <i>901 Main Avenue, Norwalk Connecticut, 06851 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 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: Mark Bradshaw Kraeling
Mark Bradshaw Kraeling

Date: 21-Dec-2018

Witnessed by: Scott D. Nelson
Signature

Date: 21-Dec-18

Scott D. Nelson
Printed Name of Witness

Witnessed by: David Teeter
Signature

Date: 12/21/18

DAVID TEETER
Printed Name of Witness

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

Mark Bradshaw Kraeling

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Mark Bradshaw Kraeling** to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

INVENTOR 2

Signature: *Glenn Robert Shaffer*
Glenn Robert Shaffer

Date: DEC 19, 2018

Witnessed by: *David R. Gibson*
Signature

Date: 12/19/18

DAVID R. GIBSON
Printed Name of Witness

Witnessed by: *Kerry Craig*
Signature

Date: 12/19/18

Kerry Craig
Printed Name of Witness

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

Glenn Robert Shaffer

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Glenn Robert Shaffer** to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

INVENTOR 4

Signature: Glen William Brooksby

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

Glen William Brooksby
Glen William Brooksby

Date: 19 Dec 2018

STATE OF New York
ss.
COUNTY OF Schenectady

This 19th day of December, 2018 before me personally came the above-named Glen William Brooksby to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

Carol S. DeBart
(Notary Public)

CHRISTOPHER J. DEBART
Notary Public, State of New York
No. 01501214254
Qualified in Schenectady County
Commission Expires 12/31/2021

INVENTOR 5

Signature: Chris Gushee
Christopher Gushee

Date: 12/19/18

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

Chris Gushee
Christopher Gushee

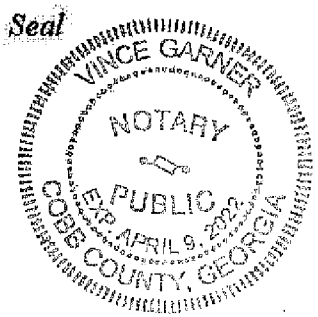
Date: 12/20/18

STATE OF Georgia

ss.

COUNTY OF COBB

This 20 day of December, 2018 before me personally came the above-named **Christopher Gushee** to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.



Vince Garner
(Notary Public)

INVENTOR 6

Signature: Jeffrey R Mayton Date: 12/13/18
Jeffrey Mayton

Witnessed by: _____ Date: _____
Signature

Printed Name of Witness

Witnessed by: _____ Date: _____
Signature

Printed Name of Witness

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

Jeffrey Mayton Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Jeffrey Mayton to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

seal

(Notary Public)

INVENTOR 7

Signature: Cheng-Po Chen
Cheng-Po Chen

Date: 12/20/2018

Witnessed by: [Signature]
Signature

Date: 12/20/2018

MIN YAN
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: 12/20/2018

David M. Shattuck
Printed Name of Witness

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

Cheng-Po Chen

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Cheng-Po Chen** to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

INVENTOR 8

Signature: Nancy Cecelia Stoffel Date: 12/19/2018
Nancy Cecelia Stoffel

Witnessed by: [Signature] Date: 12/19/2018
Signature

Christopher James Kapusta
Printed Name of Witness

Witnessed by: [Signature] Date: 12/19/2018
Signature

Stephen Arthur
Printed Name of Witness

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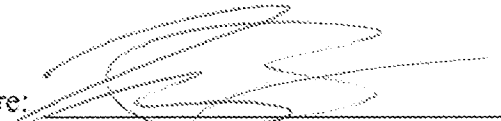
Nancy Cecelia Stoffel Date: _____

STATE OF _____
ss.
COUNTY OF _____

This _____ day of _____, _____ before me personally came the above-named Nancy Cecelia Stoffel to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal _____
(Notary Public)

INVENTOR 9

Signature: 
Wyatt Smith

Date: 12/21/2018

Witnessed by: T. Patrick Goldsmith
Signature

Date: 12/21/2018

T. Patrick Goldsmith
Printed Name of Witness

Witnessed by: Katherine M. Vinci
Signature

Date: 12/21/2018

Katherine M. Vinci
Printed Name of Witness

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Wyatt Smith

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Wyatt Smith** to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

INVENTOR 10

Signature: _____
Jose Luis R. Virgen

Date: _____

Witnessed by: _____
Signature

Date: _____


Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

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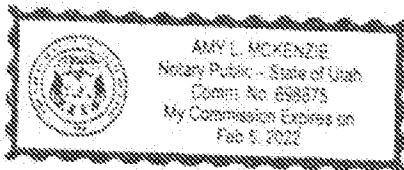
Jose Luis R. Virgen

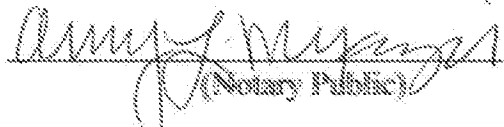
Date: 12-18-18

STATE OF Utah
COUNTY OF Salt Lake ss.

This 10th day of December, 2018, before me personally came the above-named **Jose Luis R. Virgen** to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal





(Notary Public)

