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Green Electric       Name: Department of the Navy         dditional name(s) of conveying partylies) attached?       Yes         Nature of conveying partylies) attached?       Yes         Nature of conveying partylies) attached?       Yes         Assignment       Merger         Security Agreement       Change of Name         Joint Research Agreement       Change of Name         Government Interest Assignment:       Country: USA         Querry:       Zip: 20670         Application or patent number(s):       This document is being filed together with a new application No.(s)         11       I/687,8700         12       Additional numbers attached?         Name and address to whom correspondence oncerning document should be mailed:         Name:       Mark Glut         Internal Address:       Additional numbers attached?         Yes       Additional number of applications and patents involved:         Total fee (37 CFR 1.21(h) & 3.41)*       S         Authorized to be charged t		ORM COVER SHEET
I. Name of conveying party(les)       2. Name and address of receiving party(les)         I. Marke of conveying party(les)       Name: Department of the Newy         Internal Address: Office of Counsel, Building 455.         Internal Address:	PATEN	IS ONLY
Green Electric       Name: Department of the Navy         Internal Address: Office of Coursel, Building 435.         Internal Address: Office of Coursel, Building 435.         Internal Address: Office of Coursel, Building 435.         Street Address: Office of Coursel, Building 435.         Internal Address: Office of Coursel, Building 435.         Street Address: Argement         Joint Research Agreement         Government Interest Assignment:         Government Interest Assignment:         Department Of the Nave         OtherAdditional numbers         Application or patent number(s):         A Patent Application No.(s)         II / 687,87 0         II / 687,87 0         II / 687,87 0         II / 687,87 0         II / 686,052         IN Name and address to whom correspondence         oncerning document should be mailed:         Name:         Name:         Mark Glut         Internal Address:         Deposit Account Number         Authorized to be charged to deposit account         Enclosed         None required (government interest not affecting         Physical Address:         Opeosit Account Number         Authorized to be charged to deposit account <t< th=""><th>To the Director of the U.S. Patent and Trademark Office: Plear</th><th>se record the attached documents or the new address(es) below.</th></t<>	To the Director of the U.S. Patent and Trademark Office: Plear	se record the attached documents or the new address(es) below.
Additional name(s) of conveying party(ies) attached?       Yes         Additional name(s) of conveying party(ies) attached?       Yes         No       Street Address: <u>47076 Liljencrantz Road</u> Street Address: <u>47076 Liljencrantz Road</u> Street Address: <u>47076 Liljencrantz Road</u> Assignment       Merger         Security Agreement       Change of Name         Joint Research Agreement       Change of Name         Government Interest Assignment       Country: USA         Zip: 20670       Additional name(s) & address(es) attached?         Application or patent number(s):       This document is being filed together with a new applica         A. Patent Application No.(s)       B. Patent No.(s)         I'I /687,870       S. Total number of applications and patents involved:         Name:       Mark Glut         Name:       Mark Glut         Name:       Mark Glut         Name:       Mark Glut         Street Address:       200 office of Counsel, Ba35         Authorized to be charged to deposit account         Enclosed       None required (government interest not affecting         Street Address:       200 of 200 o		2. Name and address of receiving party(ies)
Additional name(s) of conveying party(ies) attached?       Yes         Additional name(s) of conveying party(ies) attached?       Yes         No       Street Address: <u>47076 Liljencrantz Road</u> Street Address: <u>47076 Liljencrantz Road</u> Street Address: <u>47076 Liljencrantz Road</u> Assignment       Merger         Security Agreement       Change of Name         Joint Research Agreement       Change of Name         Government Interest Assignment       Country: USA         Zip: 20670       Additional name(s) & address(es) attached?         Application or patent number(s):       This document is being filed together with a new applica         A. Patent Application No.(s)       B. Patent No.(s)         I'I /687,870       S. Total number of applications and patents involved:         Name:       Mark Glut         Name:       Mark Glut         Name:       Mark Glut         Name:       Mark Glut         Street Address:       200 office of Counsel, Ba35         Authorized to be charged to deposit account         Enclosed       None required (government interest not affecting         Street Address:       200 of 200 o	Concert Electric	Name: Department of the Navy
3. Nature of conveyance/Execution Date(s):       Street Address: 47076 Lillencrantz Road         Execution Date(s):       Street Address: 47076 Lillencrantz Road         Assignment       Merger         Security Agreement       Change of Name         Joint Research Agreement       Change of Name         Government Interest Assignment       State: Maryland         Country:       USA         Other       Additional name(s) & address(es) attached?         Other       Additional name(s) & address(es) attached?         I' [667, 87 o       I' [687, 87 o         I' [687, 87 o       B. Patent No.(s)         I' [687, 87 o       Street Address: Dept of Naw, Office of Counsel, B435         Internal Address: Dept of Naw, Office of Counsel, B435       Street Address: 27076 Liljencrantz Rd         Street Address: 47076 Liljencrantz Rd       Street Address: 47076 Liljencrantz Rd         City: Patwent River       Street Address: 201-757-9582         Tone Number: 301-322-1840       Zip: 20870         Phone Number: 301-322-1840       Deposit Account Number         Authorized User Name       Authorized User Name         Signature:       Maxt	CPROVATE CIE CALLE	Internal Address: Office of Counsel, Building 435,
Execution Date(s) Solution States   Assignment Merger   Joint Research Agreement Change of Name   Joint Research Agreement State: Maryland   Government Interest Assignment Country: USA   Zip: 20670   Additional name(s) & address(es) attached? Yes   Application or patent number(s): This document is being filed together with a new applice   B. Patent Application No.(s) B. Patent No.(s)   II /687,870   II /687,870   II /687,870   II /687,870   II /687,870   II /687,870   Internal Address: to whom correspondence concerning document should be mailed:   Name: Mark Glut   Street Address: _4000   Street Address: _4000   City: Patuxent River   State: _M00   State: _M00   State: _M00   State: _M00   State: _M00   Mark Glut Internal Address:   Address: _4000   State: _M00   State: _M00 <		
Security Agreement       Change of Name         Joint Research Agreement       City: Patuxent River         Government Interest Assignment:       State: Maryland         Country: USA       Zip: 20670         Additional name(s) & address(es) attached?       Yes          Application or patent number(s):       This document is being filed together with a new application No.(s)         II       / 6877,870         III       / 6877,870         III       / 6877,870         III       / 6877,870         III       / 687,870         III       / 687,870         III       / 687,870         III       / 6877,870         III       / 687,870         III       / 687,870         III       / 7571,105         Additional numbers attached?       Yes Xio         Sconcerning document should be mailed:       Rawind         Name:       Mathorized to be charged to deposit account         S		Street Address: <u>47076 Liljencrantz Road</u>
Joint Research Agreement   Government Interest Assignment   Executive Order 9424, Confirmatory License   Other		Cify: Patuxent River
Country: USA   Country: USA   Other Additional name(s) & address(es) attached?   Yes B. Patent Application No.(s)   II /687,870   II /686,057   II /687,870   II /687,870   II /687,870   II /686,057   II /686,057   II /687,870   II /686,057   II /687,870   II /687,870   II /687,870   II /686,057   II /686,057   II /687,870   Internal Address: Dept of Naw, Office of Counsel, B435   Internal Address: 4000000000000000000000000000000000000		
Application or patent number(s):   Additional numbers attached?   Yes   Name and address to whom correspondence   Concerning document should be mailed:   Name:   Mark Glut   Internal Address:   Dept of Navy, Office of Counsel, B435   Authorized to be charged to deposit account   Benclosed   None required (government interest not affecting   State:   MD   Zip:   Phone Number:   State:   MD   Zip:   Phone Number:   State:   MD   Zip:   Phone Number:   Signature:	Government Interest Assignment	
4. Application or patent number(s):       This document is being filed together with a new application No.(s)         11       1687,870         11       1686,052         12       1571,105         Additional numbers attached?       Yes Mo         S. Name and address to whom correspondence concerning document should be mailed:       6. Total number of applications and patents involved:         Name:       Mark Glut       7. Total fee (37 CFR 1.21(h) & 3.41)         Internal Address:       Dept of Navy, Office of Counsel, B435         Street Address:       4.000 consel, B435         City:       Paturent River         State:       MD         City:       Paturent River         State:       MD         State:       MD         Phone Number:       201-322-1840         Email Address:       mark.glut@navy.mit         Deposit Account Number       Authorized User Name         Email Address:       mark.glut@navy.mit         D:       Signature:	Executive Order 9424, Confirmatory License	Zip: <u>20670</u>
A. Patent Application No.(s)   II / 687, 87 0   II / 687, 87 0   II / 686, 052   I2 / 571, 05   Additional numbers attached?   Yes   Name and address to whom correspondence concerning document should be mailed:   Name:   Mark Glut   Internal Address:   Dept of Navy, Office of Counsel, B435   Authorized to be charged to deposit account   Enclosed   X None required (government interest not affecting)   State:   MD   City:   Patuxent River   State:   State:   State:   MD   Zip::   Zip::   Zip::   Zip::   Zip::   Authorized User Name   Phone Number:   201-322-1840   Email Address:   mail Address:   Mark	Other	Additional name(s) & address(es) attached? - Yes Ko
5. Name and address to whom correspondence concerning document should be mailed:       6. Total number of applications and patents involved:         Name:       Mark Glut       7. Total fee (37 CFR 1.21(h) & 3.41) \$         Internal Address:       Dept of Navy, Office of Counset, B435       Authorized to be charged to deposit account         Street Address:       47076 Liljencrantz Rd       Authorized to be charged to deposit account         Street Address:       47076 Liljencrantz Rd       None required (government interest not affecting)         City:       Patuxent River       8. Payment information         State:       MD       Zip: 20670         Phone Number:       301-757-0582       Deposit Account Number         Fax Number:       March       Authorized User Name         Authorized User Name       Authorized User Name	" [687,870 "  [686,052	
concerning document should be mailed:   Name:   Mark Glut     Internal Address:   Dept of Navy, Office of Counsel, B435     Authorized to be charged to deposit account   Enclosed   X None required (government interest not affecting)   State:   MD   Zip:   20670   Phone Number:   201-757-0582   Phone Number:   201-757-0582   Phone Number:   201-757-0582   Phone Number:   201-757-0582   Deposit Account Number   Authorized User Name   Authorized User Name		for a second for a second s
Internal Address: Dept of Navy, Office of Counset, B435		6. Total number of applications and patents involved:
Authorized to be charged to deposit account   Street Address: <u>47076 Litjencrantz Rd</u> City: <u>Patuxent River</u> City: <u>Patuxent River</u> State: <u>MD</u> Zip: <u>20670</u> Phone Number: <u>301-757-0582</u> Phone Number: <u>301-342-1840</u> Email Address: <u>mark.glut@navy.mil</u> Deposit Account Number   Authorized User Name   2/S/II	Name: Mark Glut	7. Total fee (37 CFR 1.21(h) & 3.41) \$
Street Address: 47076 Liljencrantz Rd   Street Address: 6707   Street Address: 7707	nternal Address: Dept of Navy, Office of Counsel, B435	
City:       Patuxent River         City:       Patuxent River         State:       MD         Zip:       20670         Phone Number:       301-757-0582         Patuxent:       Deposit Account Number         City:       ax Number:         State:       MD         City:       Zip:         Zip:       20670         Phone Number:       301-757-0582         Deposit Account Number		Authorized to be charged to deposit account
City:       Patuxent River         City:       Patuxent River         State:       MD         Zip:       20670         Phone Number:       301-757-0582         Phone Number:       301-342-1840         Email Address:       mark.glut@navy.mit         Signature:       MMAA	Street Address: 47076 Liliencrantz Rd	
State: _MD		None required (government interest not affecting title)
Phone Number: <u>301-757-0582</u> Tax Number: <u>301-342-1840</u> Email Address: <u>mark.glut@navy.mil</u> Deposit Account Number Authorized User Name <b>2</b> /8///		8. Payment Information
Fax Number:     301-342-1840       Email Address:     mark.glut@navy.mil       Signature:     1/8/1/	Sity: Patuxent River	
Fax Number:     301-342-1840       Email Address:     mark.glut@navy.mil       Signature:     1/8/1/		· · · · · · · · · · · · · · · · · · ·
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Signature: April 2/8/1/	Phone Number: <u>301-757-0582</u>	Deposit Account Number
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Mark O. Glut Total number of pages including cover	State: _MD     Zip: 20670       Phone Number: 301-757-0582       State:	Authorized User Name
Mark O. Glut I otal number of pages including cover Name of Person Signing sheet, attachments, and documents:	State: <u>MD</u> Zip: 20670 Phone Number: <u>301-757-0582</u> Sax Number: <u>301-342-1840</u> Email Address: <u>mark.glut@navy.mil</u> Signature: <u>Signature</u>	Authorized User Name

PATENT REEL: 028886 FRAME: 0503

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### CONTRACTOR'S CONFIRMATORY LICENSE TO THE UNITED STATES GOVERNMENT

Pursuant to, and in confirmation of, the provisions therefor contained in Contract Number N00421-05-D-0116 – delivery order 0001, the undersigned General Electric Company (hereinafter, "contractor") does hereby grant and convey to THE UNITED STATES GOVERNMENT (hereinafter, "the Government") a nonexclusive, nontransferable, irrevocable paid-up license to have practiced for or on behalf of the Government, throughout the world, in the manufacture, use, and disposition according to the law, of any invention embodied in the claims covered by the following application for Letters Patent and any resulting Letters Patent therefrom,

#### TO WIT:

Inventor's Name	Serial Number	Filing Date	Title of Invention
Meena Ganesh	11/687,870	3/19/2007	A CLAMPING APPARATUS AND
Selaka Bulumulla			A SYSTEM AND METHOD FOR
			DETECTING DEFECTS IN
			ELECTRICAL WIRING

Any license granted herein shall not convey any right to the Government to manufacture, have manufactured, or use any invention covered by the claims of said application for Letters Patent and said resulting Letters Patent for the purpose of providing services or supplies to the general public in competition with the Contractor or the Contractor's commercial licensees in the licensed fields.

The acceptance of this license shall not constitute any acknowledgement of the validity or scope of any patent, and the GOVERNMENT shall have and retain the rights to terminate this license at any time by mailing notice of its intention to do so to the undersigned at the address set forth below.

IN WITNESS WHEREOF the undersigned has executed this instrument this 5th day of Sept., 2007.

WITNESS:

Patrick K. Patnode, Attesting Secretary

GENERAL ELECTRIC COMPANY

Licensor

William E. Powell, III Supervisory Patent Counsel – Chemical Technology GE Legal Operation One Research Circle Niskayuna, NY 12309

> PATENT REEL: 028886 FRAME: 0504

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#### CONTRACTOR'S CONFIRMATORY LICENSE TO THE UNITED STATES GOVERNMENT

Pursuant to, and in confirmation of, the provisions therefor contained in Contract Number N00421-05-D-0116 – delivery order 0001, the undersigned General Electric Company (hereinafter, "contractor") does hereby grant and convey to THE UNITED STATES GOVERNMENT (hereinafter, "the Government") a nonexclusive, nontransferable, irrevocable paid-up license to have practiced for or on behalf of the Government, throughout the world, in the manufacture, use, and disposition according to the law, of any invention embodied in the claims covered by the following application for Letters Patent and any resulting Letters Patent therefrom,

#### TO WIT:

Inventor's Name	Serial Number	Filing Date	Title of Invention
Meena Ganesh	11/686,052	3/14/2007	METHOD AND SYSTEM FOR PASSIVELY DETECTING AND LOCATING WIRE HARNESS DEFECTS

Any license granted herein shall not convey any right to the Government to manufacture, have manufactured, or use any invention covered by the claims of said application for Letters Patent and said resulting Letters Patent for the purpose of providing services or supplies to the general public in competition with the Contractor or the Contractor's commercial licensees in the licensed fields.

The acceptance of this license shall not constitute any acknowledgement of the validity or scope of any patent, and the GOVERNMENT shall have and retain the rights to terminate this license at any time by mailing notice of its intention to do so to the undersigned at the address set forth below.

IN WITNESS WHEREOF the undersigned has executed this instrument this 51% day of 247, 2007.

WITNESS:

Patrick K. Patnode, Attesting Secretary

GENERAL ELECTRIC COMPANY

William E. Powell, III Supervisory Patent Counsel – Chemical Technology GE Legal Operation One Research Circle Niskayuna, NY 12309

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### CONTRACTOR'S CONFIRMATORY LICENSE TO THE UNITED STATES GOVERNMENT

Pursuant to, and in confirmation of, the provisions therefore contained in Contract Number N00421-05-D-0116 0002, the undersigned General Electric Company (hereinafter, "contractor") does hereby grant and convey to THE UNITED STATES GOVERNMENT (hereinafter, "the Government") a nonesclusive, nontransferable, irrevocable paid-up license to have practiced for or on behalf of the Government, throughout the world, in the manufacture, use, and disposition according to the law, of any invention embodied in the claims covered by the following application for Letters Patent and any resulting Letters Fotent therefrom,

TO WIT:

Inventor's Name	Serial Number	Filing Date	Title of Invention
Selaka Bulumulla	12/571105	09/30/2009	Monitoring System and Current
Jeffrey Ashe	·		Transformers for Partial Discharge
			Detection

Any license granted herein shall not convey any right to the Government to manufacture, have manufactured, or use any invention covered by the claims of said application for Letters Patent and said resulting Letters Patent for the purpose of providing services or supplies to the general public in competition with the Contractor or the Contractor's commercial licensees in the licensed fields.

The acceptance of this license shall not constitute any acknowledgement of the validity or scope of any patent, and the GOVERNMENT shall have and retain the rights to terminate this license at any time by mailing notice of its intention to do so to the undersigned at the address set forth below.

IN WITNESS WHEREOF the undersigned has executed this instrument this 12th day of January 2010.

GENERAL ELECTRIC COMPA Licenson

Jason K. Klindtworth, Supervisory Patent Counsel GE Legal Operation GE Global Research

One Research Circle Niskayuna, New York (12309)

## PATENT REEL: 028886 FRAME: 0506

# **RECORDED: 09/04/2012**