RM PTO-1595 9/2 3/04  Nev. 6-93)  MB No. 0651-0011 (exp. 4/94)  "press Mail No.	RECORDATIO 09-28-2	2004	/ER SHEET	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
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Tab settings	102846	5003		
To the Honorable Commissioner	of Paterno and Trademarks:	Please record th	ne attached original docur	ments or copy thereof.
Name of conveying party(ies):		2. Name and	address of receiving party	y(ies)
Bruce Gordon Norman, Avinash Vinayak Taware, Minesh Ashok Shah, Ajai Singh, Willy Steve Ziminsky, Pingchuan Wu  Additional name(s) of conveying party(ies) attached Yes No		Name: <u>Ger</u>	neral Electric Company	_ %
		Internal Ad	dress:	
		Street Add	ress: 1 River Road	PINANCE SECTION
3. Nature of conveyance:				12345 S J S
	☐ Merger	City: Sche	nectady_State: <u>NY_</u> ZIP:	12345
☐ Security Agreement	☐ Change of Name			υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ
☐ Other  Execution Date: 9/7/04, 9/7/04, 9/7/04, 9/2/04, 9/2/04, 9/2/04  respectively		Additional name(s) & address(es) attached? Yes No		
				4. Application number(s) or patent num
If this document is being filed together v	vith a new application, the e	xecution date of	the application is:	
A. Patent Application No.(s)		B. Patent No.	(s)	
10/856,583 Attorney Docket No. 141844				
Additional numbers attached?				
<ol><li>Name and address of party to whom concerning document should be mai</li></ol>		6. Total numb	per of applications and par	tents involved: 1
Name: John S. Beulick		7. Total fee (3	37 CFR 3.41)	\$ <u>40.00</u>
Internal Address: <u>Armstrong Teasda</u>	le, LLP.	☐ Enclose	ed zed to be charged to depo	nsit account
Street Address: One Metropolitan So	ą. Suite 2600	Lai Additiona		

DO NOT USE THIS SPACE

9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

Ala L. Cassel, #35,842

40.00 DA

City: St. Louis State: MO ZIP: 63102

Name of Person Signing

September 23, 2004

1 FC:8021

09/27/2004 ECDOPER 00000069 012384

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Total number of pages including cover sheet, attachments, and document: 22

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

### IN THE UNITED STATES OFFICE OF PATENTS AND TRADEMARKS

Applicant: Bruce Gordon Norman et al.

Serial Number: 10/856,583 : Group Art Unit:

Filed: May 28, 2004 : Examiner:

For: METHODS AND APPARATUS

FOR PREDICTING AND /OR :

FOR AVOIDING LEAN

**BLOW-OUTS** 

# CERTIFICATE OF MAILING BY EXPRESS MAIL TO THE COMMISSIONER OF PATENTS AND TRADEMARKS

Express Mail mailing label number: EL 977 940 619 US

Date of Mailing: September 23, 2004

I certify that the documents listed below:

- Certificate of Express Mailing (1 page)
- Assignment Recordation Cover Sheet (1 page, in duplicate)
- Executed Assignment of Bruce Gordon Norman (7 pages)
- Executed Assignment of Avinash Vinayak Taware and Minesh Ashok Shah (7 pages)
- Executed Assignment of Ajai Singh, Willy Steve Ziminsky and Pingchuan Wu (7 pages)
- Return Post Card

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above in an envelope addressed to: Mail Stop: ASSIGNMENT RECORDATION SERVICES, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Alan L. Cassel, Reg. No. 35,842 ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600

St. Louis, MO 63102-2740

(314) 621-5070

PATENT REEL: 015816 FRAME: 0033

Attorney Docket No.
141844

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration, of which we acknowledge receipt, we, BRUCE GORDON NORMAN, 17 Maplewood Drive, Ballston Lake, New York 12019; AVINASH VINAYAK TAWARE, 1187 Hillside Avenue, #2B16, Niskayuna, New York 12309; MINESH ASHOK SHAH, 33 Cindy Lane, Clifton Park, New York 12065; AJAI SINGH, 47 Redfield Park, Clifton Park, New York 12065; WILLY STEVE ZIMINSKY, 300 Jockey Court, Simpsonville, South Carolina 29681; and PINGCHUAN WU, 1800 Cai Lun Road, Zhang Jiang High Tech Park, Shanghai 201203, China, hereby sell and assign to General Electric Company, a New York Corporation, having an address at 1 River Road, Schenectady, New York 12345, USA, (hereinafter referred to as "Company"), its successors and assigns, our entire respective rights, titles and interests in and to the invention and improvements invented and originated by us and described in the application for United States Patent currently entitled METHODS AND APPARATUS FOR PREDICTING AND/OR FOR AVOIDING LEAN BLOW-OUTS, Docket Number 141844, filed on May 28, 2004, having Serial Number 10/856,583, 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 said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said 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 said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

1

PATENT

Attorney Docket No.

Signed at town of Niska yuno this day of Sopkular, 2004.	State of NY  Brus Gordon Norman
Witnessed by:  Michael Van Derwerken  Printed Name of Witness  Witness Signature and Date  Printed Name of Witness	STATE OF
	My Commission Expires:(Seal)
	ANDREA NEVINS NOTARY PUBLIC, STATE OF NEW YORK NO. 01NE6087910 QUALIFIED IN SARATOGA COUNTY MY COMMISSION EXPIRES FEB. 24, 20

ASSIGNMENT		Attorney Docket No.
Signed at town of	, State of	
thisday of	, 2004.	
	AVINASH VINAYAK	TAWARE
Witnessed by:	STATE OF	) ss.
Witness Signature and Date Printed Name of Witness	This day of	, 20, before me the above-named
Printed Name of Witness  Witness Signature and Date	personally known as the iforegoing assignment, who executed the same of his o	to me individual who executed the acknowledged to me that he wn free will for the purposes
Printed Name of Witness	therein set forth.	Notary Public
	My Commission Expires: _	
	(Seal)	

ASSIGNMENT		Attorney Docket No.
Signed at town of		
thisday of, 2004.	MINESH ASHOK SHA	<u>H</u>
Witnessed by:	STATE OF	) ss.
Witness Signature and Date  Printed Name of Witness	COUNTY OF This day of me personally car	, 20, befor ne the above-name
Witness Signature and Date	foregoing assignment, who	individual who executed the acknowledged to me that he was free will for the purpose
Printed Name of Witness		Notary Public

My Commission Expires: \_\_\_

ASSIGN	Attorney Docket No.  141844
Signed at town of thisday of	, State of,, 2004.
	AJAI SINGH
Witnessed by:	STATE OF) ) ss. COUNTY OF)
Witness Signature and Date	This day of, 20, before me personally came the above-named
Printed Name of Witness  Witness Signature and Date	
Printed Name of Witness	Notary Public
	My Commission Expires:(Seal)

ASSIGNMENT		Attorney Docket No.	
Signed at town of		, State of	
thisday of	, 2004.		
		WILLY STEVE ZIMIN	NSKY
Witnessed by:		STATE OF	) ss.
Witness Signature and Date			, 20, before
Printed Name of Witness		personally known as the foregoing assignment, wh	, to me individual who executed the no acknowledged to me that he own free will for the purposes
Witness Signature and Date  Printed Name of Witness	,,	therein set forth.	Notary Public
		My Commission Expires:	

ASSIGNMENT		141844
Signed at town of		of,
tinsday or	PINGCHUAN V	wu
Witnessed by:	STATE OF	) ss.
Witness Signature and Date	This day me personal	of, 20, before
Printed Name of Witness  Witness Signature and Date	personally know foregoing assign:	, to me in as the individual who executed the ment, who acknowledged to me that he ne of his own free will for the purposes
Printed Name of Witness		Notary Public
	•	Expires:
	(Seal)	

Attorney Docket No. 141844

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration, of which we acknowledge receipt, we, BRUCE GORDON NORMAN, 17 Maplewood Drive, Ballston Lake, New York 12019; AVINASH VINAYAK TAWARE, 1187 Hillside Avenue, #2B16, Niskayuna, New York 12309; MINESH ASHOK SHAH, 33 Cindy Lane, Clifton Park, New York 12065; AJAI SINGH, 47 Redfield Park, Clifton Park, New York 12065; WILLY STEVE ZIMINSKY, 300 Jockey Court, Simpsonville, South Carolina 29681; and PINGCHUAN WU, 1800 Cai Lun Road, Zhang Jiang High Tech Park, Shanghai 201203, China, hereby sell and assign to General Electric Company, a New York Corporation, having an address at 1 River Road, Schenectady, New York 12345, USA, (hereinafter referred to as "Company"), its successors and assigns, our entire respective rights, titles and interests in and to the invention and improvements invented and originated by us and described in the application for United States Patent currently entitled METHODS AND APPARATUS FOR PREDICTING AND/OR FOR AVOIDING LEAN BLOW-OUTS, Docket Number 141844, filed on May 28, 2004, having Serial Number 10/856,583, 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 said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said 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 said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

1

PATENT REEL: 015816 FRAME: 0041

Attorney Docket No.

Signed at town of	, State of
thisday of	, 2004.
	BRUCE GORDON NORMAN
Witnessed by:	STATE OF) ) ss.
Witness Signature and Date	COUNTY OF)
Withess Signature and Date	This day of, 20, before
Printed Name of Witness	me personally came the above-named , to me
	personally known as the individual who executed the foregoing assignment, who acknowledged to me that he
Witness Signature and Date	executed the same of his own free will for the purposes therein set forth.
Printed Name of Witness	Notary Public
	My Commission Expires:
	(Seal)

Attorney Docket No.

ASSIGNMENT		141844
Signed at town of Niskayuna this 7 day of September, 2004.	, State of Ne	w York ,
,	AVINASH VINAYAK	
Witnessed by:	STATE OF <u>New Yo</u> COUNTY OF <u>SChe</u>	rk nectady
Witness Signature and Date	This 7th day of Sex	Vender2004 before
Printed Name of Witness	personally known as the i foregoing assignment, who	ndividual who executed the acknowledged to me that he wn free will for the purposes
Witness Signature and Date	therein set forth.	0
Printed Name of Witness	My Commission Expires: _ (Seal)  DONNA Notary Public, Qualified in So	Notary Public  Notary Public  12/9/2006  A P WITHEY  State of New York chenectady County 6069961 S Dec. 9 2005

	Attorney Docket No.
ASSIGNMENT	141844
Signed at town of Niskayuna this 7 day of september, 2004	, State of New York ,
	Minesh Ashok Shah
Witnessed by:	STATE OF New York  COUNTY OF Schenectady  This 7 th day of September, 20 14, before me personally came the above-named
Witness Signature and Date	This 7 th day of 5 ptember, 20 14, before me personally came the above-named
Printed Name of Witness	personally known as the individual who executed the foregoing assignment, who acknowledged to me that he
Witness Signature and Date	executed the same of his own free will for the purposes therein set forth.  Novary Publis
Printed Name of Witness	Notary Public  My Commission Expires:

DONNA P. WITHEY
Notary Public, State of New York
Qualified in Schenectady County
No. 5069961
Commission Expires Dec. 9

ASSIGNI	MENT	Attorney Docket No. 141844
-	, State of	
thisday of	_, 2004.	
	AJAI SINGH	
Witnessed by:	STATE OF	) ) ss.
Witness Signature and Date  Printed Name of Witness		me the above-named
	personally known as the foregoing assignment, wh	, to me individual who executed the acknowledged to me that he own free will for the purpose:
Witness Signature and Date	therein set forth.	
Printed Name of Witness		Notary Public
	My Commission Expires:	
	(Seal)	

Signed at town of	, State of
thisday of, 2004.	
	WILLY STEVE ZIMINSKY
Witnessed by:	STATE OF) ) ss.
Witness Signature and Date	COUNTY OF)
Printed Name of Witness	This day of, 20, before me personally came the above-named, to me personally known as the individual who executed the
Witness Signature and Date	foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.
Printed Name of Witness	Notary Public
	My Commission Expires:
	(Seal)

Attorney Docket No.

### Attorney Docket No. **ASSIGNMENT** 141844 Signed at town of \_\_\_\_\_\_, State of \_\_\_\_\_\_, this \_\_\_\_\_, 2004. PINGCHUAN WU STATE OF \_\_\_\_\_ Witnessed by: COUNTY OF\_\_\_\_\_\_) Witness Signature and Date This \_\_\_\_\_ day of \_\_\_\_\_ \_\_\_\_, 20\_\_\_\_, before personally came the above-named me Printed Name of Witness \_\_\_\_, 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 Witness Signature and Date therein set forth. Printed Name of Witness

(Seal)

Notary Public

My Commission Expires:

Attorney Docket No.

141844

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration, of which we acknowledge receipt, we, BRUCE GORDON NORMAN, 17 Maplewood Drive, Ballston Lake, New York 12019; AVINASH VINAYAK TAWARE, 1187 Hillside Avenue, #2B16, Niskayuna, New York 12309; MINESH ASHOK SHAH, 33 Cindy Lane, Clifton Park, New York 12065; AJAI SINGH, 47 Redfield Park, Clifton Park, New York 12065; WILLY STEVE ZIMINSKY, 300 Jockey Court, Simpsonville, South Carolina 29681; and PINGCHUAN WU, 1800 Cai Lun Road, Zhang Jiang High Tech Park, Shanghai 201203, China, hereby sell and assign to General Electric Company, a New York Corporation, having an address at 1 River Road, Schenectady, New York 12345, USA, (hereinafter referred to as "Company"), its successors and assigns, our entire respective rights, titles and interests in and to the invention and improvements invented and originated by us and described in the application for United States Patent currently entitled METHODS AND APPARATUS FOR PREDICTING AND/OR FOR AVOIDING LEAN BLOW-OUTS, Docket Number 141844, filed on May 28, 2004, having Serial Number 10/856,583, 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 said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said 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 said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

> PATENT REEL: 015816 FRAME: 0048

Attorney Docket No.

Signed at town of	, State of,
thisday of	_, 2004.
	BRUCE GORDON NORMAN
Witnessed by:	STATE OF) ) ss.
Witness Signature and Date	COUNTY OF)
Witness Signature and Date	This day of, 20, before
Printed Name of Witness	me personally came the above-named, 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
Witness Signature and Date	therein set forth.
Printed Name of Witness	Notary Public
	My Commission Expires:
	(Seal)

ASS	SIGNMENT	Attorney Docket No.
Signed at town of	, Sta	ite of
thisday of	, 2004.	
	AVINASH V	VINAYAK TAWARE
Witnessed by:		) ) ss. F)
Witness Signature and Date Printed Name of Witness	This c	day of, 20, before the above-named
Printed Name of Witness	personally k foregoing ass	nown as the individual who executed the signment, who acknowledged to me that he same of his own free will for the purpose.
Witness Signature and Date	therein set fo	
Printed Name of Witness		Notary Public
	My Commiss	sion Expires:

ASSIGNMENT		Attorney Docket No.	
Signed at town of		, State of	
thisday of			
		MINESH ASHOK SHAF	I
Witnessed by:		STATE OF	) ss.
Witness Signature and Date	COUNTY OF  This day of me personally cam	, 20, before	
Printed Name of Witness		personally known as the ir foregoing assignment, who	to modividual who executed the acknowledged to me that he
Witness Signature and Date		executed the same of his ov therein set forth.	vn free will for the purpose
Printed Name of Witness			Notary Public

My Commission Expires:

ASŠIGNN	MENT	Attomey Docket No.
Signed at town of <u>Schenectary</u> , State of <u>New York</u> , this <u>2</u> day of <u>Septembn</u> , 2004.		
Witnessed by:  Unice Tutie 9/2/2  Witness Signature and Date  VINCE FUTIA	This day of	) ss.
Printed Name of Witness  Witness Signature and Date  Heather M. Aguirre  Printed Name of Witness	personally known as the foregoing assignment, who executed the same of his of therein set forth.	, to me individual who executed the packnowledged to me that he own free will for the purposes
	My Commission Expires:	

Attorney Docket No.

Signed at town of GREENVILLE	- · · · - · · · · · · · · · · · · · · ·
this Z <sup>rad</sup> day of <u>SEPTEMBER</u> , 2004.	WILLY STEVE ZIMINSKY
Witnessed by:	STATE OF SC COUNTY OF Green (c) ss.
Witness Signature and Date	This 2 day of Sentento 2004, before
Printed Name of Witness	me personally came the above-named the 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
Witness Signature and Date	therein set forth.
Printed Name of Witness	Notary Public  My Commission Expires: U-U-13  (Seal)

ASSIGNMENT	Attorney Docket No.
Signed at town of Beging	, State of
Signed at town of Berjing thisday of Sep. 02, 2004.	
	Direchuer PINGOHUAN WU
Witnessed by:	STATE OF) ) ss.
Witness Signature and Date	COUNTY OF
Printed Name of Witness	me personally came the above-named
Witness Signature and Date	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.
Printed Name of Witness	Notary Public
	My Commission Expires:
	(See 1)