# 505186032 11/12/2018 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5232801

SUBMISSION TYPE:		NEW ASSIGNMENT	
ATURE OF CONVEYAN	NCE:	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
CLIFFORD E. JOHNSON	N		07/06/2016
WEIDONG CAI			05/18/2016
KRISHNA C. MIDUTURI			06/09/2016
BEN KARANJA			06/07/2016
MARK SEIFARTH			05/19/2016
THOMAS PRIMKE			05/18/2016
RECEIVING PARTY DA	ТА		
Name:	SIEME	NS ENERGY, INC.	
Street Address:	4400 A	LAFAYA TRAIL	
City:	ORLAN	NDO	
State/Country:	FLORI	DA	
State/Country: Postal Code: PROPERTY NUMBERS	32826	DA	
Postal Code: PROPERTY NUMBERS	32826		
Postal Code:	32826	DA Number 16300637	
Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1:	32826 Total: 1 ATA e sent to provideo	Number         16300637         (407)243-3175         o the e-mail address first; if that is unsuccessful, it will be sent via US M         d; if that is unsuccessful, it will be sent via US M         407-736-2472         IPDadmin.us@siemens.com         SIEMENS CORPORATION IP DEPARTMENT         3501 QUADRANGLE BLVD STE 230	
Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	32826 Total: 1 ATA e sent to provideo	Number         16300637         (407)243-3175         o the e-mail address first; if that is unsuccessful, it will be sent via US M         d; if that is unsuccessful, it will be sent via US M         407-736-2472         IPDadmin.us@siemens.com         SIEMENS CORPORATION IP DEPARTMENT         3501 QUADRANGLE BLVD STE 230         ORLANDO, FLORIDA 32817	
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Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if µ Phone: Email: Correspondent Name: Address Line 1: Address Line 4: Attorney DOCKET NUME IAME OF SUBMITTER:	32826 Total: 1 ATA e sent to provideo	Number         16300637         (407)243-3175 <i>o</i> the e-mail address first; if that is unsuccessful, it will be sent via US M <i>d</i> ; if that is unsuccessful, it will be sent via US M         407-736-2472         IPDadmin.us@siemens.com         SIEMENS CORPORATION IP DEPARTMENT         3501 QUADRANGLE BLVD STE 230         ORLANDO, FLORIDA 32817         2016P03984WOUS         STEVEN GREENLEE	
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#### ASSIGNMENT

For good and valuable consideration, I (We),

Clifford E. Johnson, residing at 3417 Spotted Fawn Drive, Orlando, FL 32817, US, citizen of US
Weidong Cai, residing at 1681 Carillon Park Drive, Oviedo, FL 32765, US, citizen of CN
Krishna C. Miduturi, residing at 286 Reed Grass Drive, Oviedo, FL 32765, US, citizen of IN
Ben Karanja, residing at 14506 San Lorenzo Dr., Orlando, FL 32820, US, citizen of
Mark Seifarth, residing at 14506 San Lorenzo Dr., Orlando, FL 32820, US, citizen of DE
Thomas Primke, residing at 580 Summerfield Place, Belmont, NC 28012, US, citizen of US

hereafter individually or collectively referred to as "Assignor(s)";

Hereby, (I) acknowledge having previously assigned, sold and transferred to **Siemens Energy, Inc.**, a corporation organized and existing under the laws of the State of DELAWARE, having its principal place of business at 4400 Alafaya Trail, Orlando, FL 32826-2399, hereinafter "Assignee", its successors, assigns and legal representatives, or to a predecessor of Assignee, pursuant to (A)(i) the laws of UNITED STATES OF AMERICA or (ii) a Patent & Secrecy Agreement or similar legal document such as, without limitation, an employee agreement executed at the time of entering into the employment of, or executed as a condition of continuing employment with, the Assignee or a predecessor of the Assignee, the entire right, including any and all priority rights, title and interest, in and for the United States and all foreign countries, in and to any and all inventions or improvements which are disclosed in an invention disclosure and/or in the below-identified documents currently filed with this Assignment, already filed or granted for Letters Patent (in which case, any provision of the subject Assignment(s) then this Assignment shall govern, take precedence, and be of legal effect), or

(B)(i) to the extent such laws of UNITED STATES OF AMERICA or such Patent & Secrecy Agreement or similar legal document failed or fails, in whole or part, to have assigned, sold or transferred the entire right (including priority rights), title and interest, in and for the United States and all foreign countries, in and to all inventions or improvements which are disclosed in the below-identified application(s) or pending application(s) or granted Letters Patent, or (ii) if no such agreement(s) exist assigning, selling or transferring any such right (including priority rights), title or interest; then for good and valuable consideration, Assignor(s) now and hereby, effective Nunc Pro Tunc on the filing date of the below identified patent application(s), pending patent application(s) or granted Letter Patent(s), assign, sell and transfer(s) to Assignee, its successors, assigns and legal representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and/or improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s).

Patent Application Title: A METHOD OF SELECTIVE COMBUSTOR CONTROL FOR REDUCED EMISSIONS Filing Date: 12 May 2016 Filing Number: PCT/US2016/032201 Internal Case Number(s): 2016P03984WO

IDNR: 1930/21.05.2015

and in and to said application(s) or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the inventions and/or improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on the inventions and/or improvements;

(II) Agree that said Assignee may apply for and receive Letters Patent for said inventions and/or improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions and/or improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said inventions and/or improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and/or improvements and for vesting title to said inventions and or improvements and all applications for patents and all patents on said inventions and/or improvements, in said Assignee, its successors, assigns and legal representatives; and

(III) Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Witness Signature

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Johnson

Date

Witness Signature

Weidong Cai

Date

printed name

Witness Signature

Krishna C. Miduturi

printed name

Date

Witness Signature	Ben Karanja			
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Witness Signature	Mark Seifarth	<mark>gi kan dan sejakan sejaka</mark> Se	<del></del>	
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Witness Signature	Thomas Primke		<del></del>	
printed name	Date	<u>.</u>		
				<del></del>
Companies Representative(s) Siemens Energy, Inc.				
Signature(s):		.: 		
Name(s):Daniel J. Staudt	y mar and authorization of the	<del></del>		
Title: <u>Assistant Secretary</u>		<del></del>		
Date: <u>17-18-3016</u>				

#### ASSIGNMENT

For good and valuable consideration, I (We),

Clifford E. Johnson, residing at 3417 Spotted Fawn Drive, Orlando, FL 32817, US, citizen of US 2537 Belle Field CV. Oviedo, FZ 32765 Weidong Cai, residing at 4684 Garillen Park Drive, Ovisdo, FL 32765, US, citizen of CN Krishna C. Miduturi, residing at 286 Reed Grass Drive, Oviedo, FL 32765, US, citizen of IN Ben Karanja, residing at 14506 San Lorenzo Dr., Orlando, FL 32820, US, citizen of DE Mark Seifarth, residing at 14506 San Lorenzo Dr., Orlando, FL 32820, US, citizen of DE Thomas Primke, residing at 580 Summerfield Place, Belmont, NC 28012, US, citizen of US

hereafter individually or collectively referred to as "Assignor(s)";

Hereby, (I) acknowledge having previously assigned, sold and transferred to Siemens Energy, Inc., a corporation organized and existing under the laws of the State of DELAWARE, having its principal place of business at 4400 Alafaya Trail, Orlando, FL 32826-2399, hereinafter "Assignee", its successors, assigns and legal representatives, or to a predecessor of Assignee, pursuant to (A)(I) the laws of UNITED STATES OF AMERICA or (ii) a Patent & Secrecy Agreement or similar legal document such as, without limitation, an employee agreement executed at the time of entering into the employment of, or executed as a condition of continuing employment with, the Assignee or a predecessor of the Assignee, the entire right, including any and all priority rights, title and interest, in and for the United States and all foreign countries, in and to any and all inventions or improvements which are disclosed in an invention disclosure and/or in the below-identified documents currently filed with this Assignment, already filed or granted for Letters Patent (in which case, any provision of the subject Assignment(s) then this Assignment shall govern, take precedence, and be of legal effect), or

(B)(i) to the extent such laws of UNITED STATES OF AMERICA or such Patent & Secrecy Agreement or similar legal document failed or fails, in whole or part, to have assigned, sold or transferred the entire right (including priority rights), title and interest, in and for the United States and all foreign countries, in and to all inventions or improvements which are disclosed in the below-identified application(s) or pending application(s) or granted Letters Patent, or (ii) if no such agreement(s) exist assigning, selling or transferring any such right (including priority rights), title or interest; then for good and valuable consideration, Assignor(s) now and hereby, effective Nunc Pro Tunc on the filing date of the below identified patent application(s), pending patent application(s) or granted Letter Patent(s), assign, sell and transfer(s) to Assignee, its successors, assigns and legal representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and/or improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s)

Patent Application Title: A METHOD OF SELECTIVE COMBUSTOR CONTROL FOR REDUCED EMISSIONS Filing Date: 12 May 2016 Filing Number: PCT/US2016/032201 Internal Case Number(s): 2016P03984WO

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and in and to said application(s) or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the inventions and/or improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on the inventions and/or improvements;

(II) Agree that said Assignee may apply for and receive Letters Patent for said inventions and/or improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions and/or improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said inventions and/or improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and/or improvements and for vesting title to said inventions and/or improvements and all applications for patents and all patents on said inventions and/or improvements, in said Assignee, its successors, assigns and legal representatives; and

(III) Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Witness Signature	Clifford E. Johnson	
printed name	Date	
Human		
Witness Signature	Weidong Cai	
Bhavana Rajput	5/18/16	
printed name	Date	
Witness Signature	Krishna C. Mlduturi	
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printed name	Date	

Witness Signa	lure	Ben Karanja		
printed name		Date		
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Witness Signat	ure and the second s	Mark Selfarth		
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Witness Signat	ure	Thomas Primke		
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Companies Rep Siemens Energy,	resentative(s)	ingen andra N ≹uun an an N		
Signature(s):	Nal Kin	P		
Name(s):	Daniel J. Staudt			
Title:	Assistant Secretary			
Date:	<u>n-18-20110</u>			
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#### ASSIGNMENT

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Witness Signature	Mark Seifarth	
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printed name	Date	
Witness Signature	Thomas Primke	
printed name	Dato	
Companies Representative(s) Siemens Energy, Inc.		
Name(s): Daniel J. Staudt		
Title: <u>Assistant Secretary</u>		
Dete: <u>1-18-2016</u>		

### ASSIGNMENT

For good and valuable consideration, I (We),

Clifford E. Johnson, residing at 3417 Spotted Fawn Drive, Orlando, FL 32817, US, citizen of US Weldong Cal, residing at 1681 Carillon Park Drive, Ovledo, FL 32765, US, citizen of CN Krishna C. Miduturi, residing at 286 Reed Grass Drive, Ovledo, FL 32765, US, citizen of IN 2003, WAYLes, CT. Orlando, FL 32817 Ben Karanja, residing at 14506 San Lorenzo Dr., Orlando, FL 32820, US, citizen of DE Mark Selfarth, residing at 14506 San Lorenzo Dr., Orlando, FL 32820, US, citizen of DE Thomas Primke, residing at 580 Summerfield Place, Belmont, NC 28012, US, citizen of US

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Witness Signature		Clifford E. Johnson	
printed name	÷	Date	
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printed name		Date	

My Liti Witness Signature	Ben Karanja
MAZ SUTCU printed name	<u>2016-6-7</u> Date
Witness Signature	Mark Seifarth
printed name	Date
Witness Signature	Thomas Primke
printed name	Date
Companies Representative(s) Siemens Energy, Inc.	N.J.
Name(s): <u>Daniel J. Staudt</u>	
Title: <u>Assistant Secret</u>	ITY
Date: <u><u><u><u></u></u><u><u></u><u><u></u><u></u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u></u>	<u>ke</u>

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hereafter individually or collectively referred to as "Assignor(s)";

Hereby, (I) acknowledge having previously assigned, sold and transferred to **Siemens Energy, Inc.**, a corporation organized and existing under the laws of the State of DELAWARE, having its principal place of business at 4400 Alafaya Trail, Orlando, FL 32826-2399, hereinafter "Assignee", its successors, assigns and legal representatives, or to a predecessor of Assignee, pursuant to (A)(i) the laws of UNITED STATES OF AMERICA or (ii) a Patent & Secrecy Agreement or similar legal document such as, without limitation, an employee agreement executed at the time of entering into the employment of, or executed as a condition of continuing employment with, the Assignee or a predecessor of the Assignee, the entire right, including any and all priority rights, title and interest, in and for the United States and all foreign countries, in and to any and all inventions or improvements which are disclosed in an invention disclosure and/or in the below-identified documents currently filed with this Assignment, already filed or granted for Letters Patent (in which case, any provision of the subject Assignment that is in conflict with or is in addition to any provision in the prior agreement(s) or assignment(s) then this Assignment shall govern, take precedence, and be of legal effect), or

(B)(i) to the extent such laws of UNITED STATES OF AMERICA or such Patent & Secrecy Agreement or similar legal document failed or fails, in whole or part, to have assigned, sold or transferred the entire right (including priority rights), title and interest, in and for the United States and all foreign countries, in and to all inventions or improvements which are disclosed in the below-identified application(s) or pending application(s) or granted Letters Patent, or (ii) if no such agreement(s) exist assigning, selling or transferring any such right (including priority rights), title or interest; then for good and valuable consideration, Assignor(s) now and hereby, effective Nunc Pro Tunc on the filing date of the below identified patent application(s), pending patent application(s) or granted Letter Patent(s), assign, sell and transfer(s) to Assignee, its successors, assigns and legal representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and/or improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s).

Patent Application Title: A METHOD OF SELECTIVE COMBUSTOR CONTROL FOR REDUCED EMISSIONS Filing Date: 05/12/2016 Filing Number: PCT/US2016/032201 Internal Case Number(s): 2016P03984WO

IDNR: 1930/21.05,2015

and in and to said application(s) or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the inventions and/or improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all original and reissued patents which have been or shall be filed in the United States and all original and reissued patents which have been or shall be filed in the United States and all foreign countries on the inventions and/or improvements;

(II) Agree that said Assignee may apply for and receive Letters Patent for said inventions and/or improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions and/or improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said inventions and/or improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and/or improvements and for vesting title to said inventions and or improvements and all applications for patents and all patents on said inventions and/or improvements, in said Assignee, its successors, assigns and legal representatives; and

(III) Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

		i. Sector
Witness Signature	Clifford E. Johnson	
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litness Signature	Krishna C. Miduturi	
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Witness Signature	Ben Karanja			
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#### ASSIGNMENT

For good and valuable consideration, I (We),

Clifford E. Johnson, residing at 3417 Spotted Fawn Drive, Orlando, FL 32817, US, citizen of US Weldong Cai, residing at 1681 Carillon Park Drive, Ovledo, FL 32765, US, citizen of CN Krishna C. Miduturi, residing at 286 Reed Grass Drive, Ovledo, FL 32765, US, citizen of IN Ben Karanja, residing at 14506 San Lorenzo Dr., Orlando, FL 32820, US, citizen of DE Mark Selfarth, residing at 14506 San Lorenzo Dr., Orlando, FL 32820, US, citizen of DE Thomas Primke, residing at 580 Summerfield Place, Belmont, NC 28012, US, citizen of US

hereafter individually or collectively referred to as "Assignor(s)";

Hereby, (I) acknowledge having previously assigned, sold and transferred to Siemens Energy, Inc., a corporation organized and existing under the laws of the State of DELAWARE, having its principal place of business at 4400 Alafaya Trail, Orlando, FL 32326-2399, hereinafter "Assignee", its successors, assigns and legal representatives, or to a predecessor of Assignee, pursuant to (A)(i) the laws of UNITED STATES OF AMERICA or (ii) a Patent & Secrecy Agreement or similar legal document such as, without limitation, an employee agreement executed at the time of entering into the employment of, or executed as a condition of continuing employment with, the Assignee or a predecessor of the Assignee, the entire right, including any and all priority rights, title and interest, in and for the United States and all foreign countries, in and to any and all inventions or improvements which are disclosed in an invention disclosure and/or in the below-identified documents currently filed with this Assignment, already filed or granted for Letters Patent (in which case, any provision of the subject Assignment(s) then this Assignment shall govern, take precedence, and be of legal effect), or

(B)(i) to the extent such laws of UNITED STATES OF AMERICA or such Patent & Secrecy Agreement or similar legal document failed or fails, in whole or part, to have assigned, sold or transferred the entire right (including priority rights), title and interest, in and for the United States and all foreign countries, in and to all inventions or improvements which are disclosed in the below-identified application(s) or pending application(s) or granted Letters Patent, or (ii) if no such agreement(s) exist assigning, selling or transferring any such right (including priority rights), title or interest; then for good and valuable consideration, Assignor(s) now and hereby, effective Nunc Pro Tunc on the filing date of the below identified patent application(s), pending patent application(s) or granted Letter Patent(s), assign, sell and transfer(s) to Assignee, its successors, assigns and legal representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and/or improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s)

Patent Application Title: A METHOD OF SELECTIVE COMBUSTOR CONTROL FOR REDUCED EMISSIONS Filing Date: 12 May 2016 Filing Number: PCT/US2016/032201 Internal Case Number(s): 2016P03984WO

IDNR: 1930 / 21.05.2015

and in and to said application(s) or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the inventions and/or improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on the inventions and/or improvements;

(II) Agree that said Assignee may apply for and receive Letters Patent for said inventions and/or improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions and/or improvements; execute all rightful oaths, assignments, powers of altorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said inventions and/or improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and/or improvements and for vesting tille to said inventions and or improvements and all applications for patents and all patents on said inventions and/or improvements, in said Assignee, its successors, assigns and legal representatives; and

(III) Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Witness Signature	Clifford E. Johnson	
printed name	Date	
Vitness Signature	Weldong Cai	
printed name	Date	
Vitness Signature	Krishna C. Miduturi	
printed name	Date	
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PATENT REEL: 047475 FRAME: 0289

**RECORDED: 11/12/2018**