

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6168885

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNEE'S STATE OF INCORPORATION FROM CALIFORNIA TO DELAWARE previously recorded on Reel 049330 Frame 0589. Assignor(s) hereby confirms the ASSIGNEE IS A CORPORATION OF THE STATE OF DELAWARE.
<b>RESUBMIT DOCUMENT ID:</b>	506014050

**CONVEYING PARTY DATA**

Name	Execution Date
LUIZ ANTONIO DIEMER LOPES	05/31/2019

**RECEIVING PARTY DATA**

<b>Name:</b>	MITSUBISHI ELECTRIC US, INC.
<b>Street Address:</b>	5900-A KATELLA AVENUE
<b>City:</b>	CYPRESS
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	90630

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	16427873

**CORRESPONDENCE DATA**

**Fax Number:** (703)707-9112

*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:** 7037079110

**Email:** mailbox@poszlaw.com

**Correspondent Name:** POSZ LAW GROUP PLC

**Address Line 1:** 12040 SOUTH LAKES DRIVE

**Address Line 2:** SUITE 101

**Address Line 4:** RESTON, VIRGINIA 20191

<b>ATTORNEY DOCKET NUMBER:</b>	129_013MEUS
<b>NAME OF SUBMITTER:</b>	BRIAN C. ALTMILLER
<b>SIGNATURE:</b>	/Brian C. Altmiller/
<b>DATE SIGNED:</b>	06/24/2020

**Total Attachments: 10**

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5549622

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LUIZ ANTONIO DIEMER LOPES	05/31/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	mitsubishi electric us, inc.
<b>Street Address:</b>	5900-A KATELLA AVENUE
<b>City:</b>	CYPRESS
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	90630
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16427873
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)707-9112
<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>	703 707 9110
<b>Email:</b>	mailbox@poszlaw.com
<b>Correspondent Name:</b>	POSZ LAW GROUP, PLC
<b>Address Line 1:</b>	12040 SOUTH LAKES DRIVE
<b>Address Line 2:</b>	SUITE 101
<b>Address Line 4:</b>	RESTON, VIRGINIA 20191
<b>ATTORNEY DOCKET NUMBER:</b>	129_013MEUS
<b>NAME OF SUBMITTER:</b>	BRIAN C. ALTMILLER
<b>SIGNATURE:</b>	/Brian C. Altmiller/
<b>DATE SIGNED:</b>	05/31/2019
<b>Total Attachments: 3</b>	
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## ASSIGNMENT

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WHEREAS, I, Luiz Antonio Diemer Lopes, having a mailing address at 2288 Meadows End, Duluth, GA, 30097, have invented certain inventions and improvements disclosed in a patent application titled "SYSTEM AND METHOD FOR HEATING WATER," filed in the United States Patent and Trademark Office on May 31, 2019, and assigned a U.S. Patent Application No. 16/427,873; and

WHEREAS, Mitsubishi Electric US, Inc., a corporation of the State of ~~California~~ Delaware having a principal place of business at 5900-A Katella Avenue, Cypress, CA 90630, is desirous of acquiring an interest in the same.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which I hereby acknowledge, I, Luiz Antonio Diemer Lopes, by these presents do sell, assign, and transfer to Mitsubishi Electric US, Inc. the full, exclusive, and entire right, title, and interest in and to said application, in and to any divisions, continuations, reexaminations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said application, preparatory to obtaining Letters Patent of the United States therefor; and we hereby request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from said application, or from a division, continuation, reexamination, or reissue thereof, to Mitsubishi Electric US, Inc. as the assignee, for its interest and for the sole use and benefit of Mitsubishi Electric US, Inc. and its assigns and legal representatives;

For the same consideration, I, by these presents, do sell, assign, and transfer to Mitsubishi Electric US, Inc. the full, exclusive, and entire right, title, and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in

countries other than the United States, in and to any Patents and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **Mitsubishi Electric US, Inc.** or its designee insofar as permitted by applicable law; and

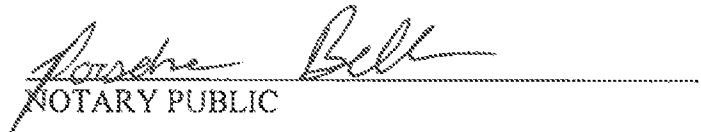
For the same consideration, I agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **Mitsubishi Electric US, Inc.**, its successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

I hereby authorize a representative of Posz Law Group, PLC, 12040 South Lakes Drive, Suite 101, Reston, Virginia USA, to insert in the blanks above the filing date and application number of said application when known.

  
Luiz Antonio Diemer Lopes

STATE OF GEORGIA

Before me, a Notary Public in and for the aforesaid State, on this 31 day of May, 2019, personally appeared Luiz Antonio Diemer Lopes who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

  
NOTARY PUBLIC

My Commission Expires: April 10 2020

(SEAL)



## ASSIGNMENT

---

WHEREAS, I, Luiz Antonio Diemer Lopes, having a mailing address at 2288 Meadows End, Duluth, GA, 30097, have invented certain inventions and improvements disclosed in a patent application titled "SYSTEM AND METHOD FOR HEATING WATER," filed in the United States Patent and Trademark Office on May 31, 2019, and assigned a U.S. Patent Application No. 16/427,873; and

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For the same consideration, I, by these presents, do sell, assign, and transfer to Mitsubishi Electric US, Inc. the full, exclusive, and entire right, title, and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in

countries other than the United States, in and to any Patents and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of Mitsubishi Electric US, Inc. or its designee insofar as permitted by applicable law; and

For the same consideration, I agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths, and generally do everything possible to aid Mitsubishi Electric US, Inc., its successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

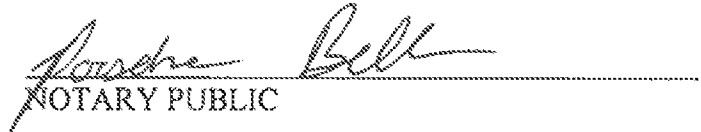
I hereby authorize a representative of Posz Law Group, PLC, 12040 South Lakes Drive, Suite 101, Reston, Virginia USA, to insert in the blanks above the filing date and application number of said application when known.



  
Luiz Antonio Diemer Lopes

STATE OF GEORGIA

Before me, a Notary Public in and for the aforesaid State, on this 31 day of May, 2019, personally appeared Luiz Antonio Diemer Lopes who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

  
NOTARY PUBLIC

My Commission Expires: April 10 2020

(SEAL)



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor: Luiz Antonio DIEMER LOPES	Atty. Dkt.: 129U_013
Serial No.: 16/427,873	Art Unit: 3763
Filed: 31 May 2019	Examiner: JULES, Frantz F
Title: SYSTEM AND METHOD FOR HEATING WATER	Confirmation No.: 2135

Commissioner for Patents  
Alexandria, VA 22314

Date: March 31, 2020

**AFFIDAVIT**

Sir:

If there is an error in the recorded assignment document, the party responsible for the erroneous document (e.g., the assignor) must either create and record a new document or make corrections to the original document and re-record it. If an assignor is not available to correct an original document or execute a new one, the assignee may submit an affidavit or declaration in which the assignee identifies the error and requests correction. The affidavit or declaration must be accompanied by a copy of the originally recorded papers, a cover sheet, and the required fee for each application or patent to be corrected, according to *In re Abacab International Computers Ltd.*, 21 USPQ2d 1078 (Comm'r Pat. 1987) and MPEP 323.01(b).

I hereby submit this affidavit pursuant to MPEP 323.01(b) that one assignee of the reference application, Luiz Antonio DIEMER LOPES, is not available to correct the original assignment or to execute a new assignment having ceased employment with the assignee.

In the attached assignment, the state of incorporation of the assignee (Mitsubishi Electric US, Inc.) was incorrectly identified as California rather than Delaware. Assignee requests

correction of this error so that the assignment will correctly indicate that the assignee (Mitsubishi Electric US, Inc.) is a corporation of the state of Delaware.

Along with this affidavit I submit a copy of the originally recorded assignment papers, a corrected copy of the originally recorded assignment papers, a cover sheet, and the required fee set forth in 37 C.F.R. § 1.21(h).

I, Jeff Whitelaw, do hereby affirm that, to the best of my knowledge, the facts of the case are as stated above.

Respectfully submitted,

/Jeffrey G. Whitelaw/  
Mr. Jeffrey G. Whitelaw  
Vice President  
Mitsubishi Electric US, Inc.

Mr. Jeffrey G. Whitelaw  
Mitsubishi Electric US, Inc.  
1340 Satellite Boulevard  
Suwanee, GA 30024