



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 11, 2022

PTAS

DAVID D. LEEGE  
VENABLE LLP  
1290 AVENUE OF THE AMERICAS  
NEW YORK, NY 10104

**507062520**

### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 10/14/2021

REEL/FRAME: 058571/0547  
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DOCKET NUMBER: 140336.519572

ASSIGNOR:  
BOUCHER, MICHAEL

DOC DATE: 09/22/2021

ASSIGNOR:  
NEUWALD, RAFAEL

DOC DATE: 09/22/2021

ASSIGNOR:  
DUNNAVANT, BRYAN KEITH

DOC DATE: 08/24/2021

ASSIGNOR:  
DINNAGE, PAUL A.

DOC DATE: 09/28/2021

ASSIGNOR:  
FANG, WEI

DOC DATE: 09/10/2021

ASSIGNOR:  
ROBERTS, JOHN

DOC DATE: 08/26/2021

ASSIGNEE:

MUNTERS CORPORATION  
225 MAGNOLIA AVENUE  
BUENA VISTA, VIRGINIA 24416

APPLICATION NUMBER: 17395873  
PATENT NUMBER:  
TITLE: ACTIVE/PASSIVE COOLING SYSTEM

FILING DATE: 08/06/2021  
ISSUE DATE:

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7109357

|                              |              |
|------------------------------|--------------|
| <b>SUBMISSION TYPE:</b>      | RESUBMISSION |
| <b>NATURE OF CONVEYANCE:</b> | ASSIGNMENT   |
| <b>RESUBMIT DOCUMENT ID:</b> | 506921386    |

| CONVEYING PARTY DATA  |                |
|-----------------------|----------------|
| Name                  | Execution Date |
| MICHAEL BOUCHER       | 09/22/2021     |
| RAFAEL NEUWALD        | 09/22/2021     |
| BRYAN KEITH DUNNAVANT | 08/24/2021     |
| PAUL A. DINNAGE       | 09/28/2021     |
| WEI FANG              | 09/10/2021     |
| JOHN ROBERTS          | 08/26/2021     |

| RECEIVING PARTY DATA   |                     |
|------------------------|---------------------|
| <b>Name:</b>           | MUNTERS CORPORATION |
| <b>Street Address:</b> | 225 MAGNOLIA AVENUE |
| <b>City:</b>           | BUENA VISTA         |
| <b>State/Country:</b>  | VIRGINIA            |
| <b>Postal Code:</b>    | 24416               |

| <b>PROPERTY NUMBERS Total: 1</b> |          |
|----------------------------------|----------|
| Property Type                    | Number   |
| <b>Application Number:</b>       | 17395873 |

| CORRESPONDENCE DATA                                                                                                                                                                             |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Fax Number:</b>                                                                                                                                                                              | (212)218-2200               |
| <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>                                                                                                                                                                                   | (202) 344-4000              |
| <b>Email:</b>                                                                                                                                                                                   | dlgodfrey@venable.com       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | DAVID D. LEEGE              |
| <b>Address Line 1:</b>                                                                                                                                                                          | VENABLE LLP                 |
| <b>Address Line 2:</b>                                                                                                                                                                          | 1290 AVENUE OF THE AMERICAS |
| <b>Address Line 4:</b>                                                                                                                                                                          | NEW YORK, NEW YORK 10104    |

|                                |                  |
|--------------------------------|------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | 140336.519572    |
| <b>NAME OF SUBMITTER:</b>      | DAVID D. LEEGE   |
| <b>SIGNATURE:</b>              | /David D. Leege/ |
| <b>DATE SIGNED:</b>            | 01/07/2022       |

**ASSIGNMENT RE NON-PROVISIONAL APPLICATION FOR ALL COUNTRIES**

FOR VALUE RECEIVED, WE, Michael Boucher, a citizen of the United States of America, residing in Lexington, Virginia; Rafael Neuwald, a citizen of Brazil, residing in Lexington, Virginia; Bryan Keith Dunnavant, a citizen of the United States of America, residing in Lexington, Virginia; John Roberts, a citizen of the United States of America, residing in Buena Vista, Virginia; Paul A. Dinnage, a citizen of the United States of America, residing in Trinity, Florida; and Wei Fang, a citizen of the United States of America, residing in San Antonio, Texas, hereby sell, assign, transfer and convey unto Munters Corporation, a corporation of the United States, having a place of business at 225 Magnolia Avenue, Buena Vista, VA 24416, its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for all countries, in and to certain inventions relating to

**ACTIVE/PASSIVE COOLING SYSTEM**

and described in an application for Letters Patent of the United States, Application No. 17/395,873, filed on August 6, 2021, and an application for Letters Patent of Australia, Application No. 2021212117, filed on August 6, 2021, and in and to said applications, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority so to do, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as it may designate.

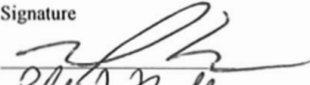
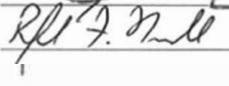
AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file or like document which may be required in any country or region for any purpose and more particularly in proof of the right of the said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND we hereby covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent or other grants of protection of said inventions in any and all countries and regions.

IN TESTIMONY WHEREOF, I hereunto set my hand:

| Name                  | Signature                                                                           | Date      |
|-----------------------|-------------------------------------------------------------------------------------|-----------|
| Michael Boucher       |  | 9/22/2021 |
| Rafael Neuwald        |  | 9/22/2021 |
| Bryan Keith Dunnavant | _____                                                                               | _____     |
| John Roberts          | _____                                                                               | _____     |
| Paul A. Dinnage       | _____                                                                               | _____     |
| Wei Fang              | _____                                                                               | _____     |

Witness:

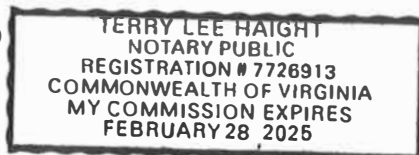
STATE OF: Virginia  
COUNTY OF: Rockbridge

)  
) ss  
)

On this 22 day of September, 2021, before me personally appeared Boucher & Neuwald

to me known and known to me to be the individual(s) described in and who executed the foregoing instrument, and who thereupon acknowledged to me that he / she / they (circle one) executed the same for the purposes therein set forth.

(Seal)



  
Notary Public  
(Notary Stamp)

**ASSIGNMENT RE NON-PROVISIONAL APPLICATION FOR ALL COUNTRIES**

FOR VALUE RECEIVED, WE, **Michael Boucher**, a citizen of the United States of America, residing in Lexington, Virginia; **Rafael Neuwald**, a citizen of Brazil, residing in Lexington, Virginia; **Bryan Keith Dunnivant**, a citizen of the United States of America, residing in Lexington, Virginia; **John Roberts**, a citizen of the United States of America, residing in Buena Vista, Virginia; **Paul A. Dinnage**, a citizen of the United States of America, residing in Trinity, Florida; and **Wei Fang**, a citizen of the United States of America, residing in San Antonio, Texas, hereby sell, assign, transfer and convey unto **Munters Corporation**, a corporation of the United States, having a place of business at 225 Magnolia Avenue, Buena Vista, VA 24416, its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for all countries, in and to certain inventions relating to

**ACTIVE/PASSIVE COOLING SYSTEM**

and described in an application for Letters Patent of the United States, Application No. 17/395,873, filed on August 6, 2021, and an application for Letters Patent of Australia, Application No. 2021212117, filed on August 6, 2021, and in and to said applications, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority so to do, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file or like document which may be required in any country or region for any purpose and more particularly in proof of the right of the said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND we hereby covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent or other grants of protection of said inventions in any and all countries and regions.

IN TESTIMONY WHEREOF, I hereunto set my hand:

| Name                  | Signature                    | Date    |
|-----------------------|------------------------------|---------|
| Michael Boucher       | _____                        | _____   |
| Rafael Neuwald        | _____                        | _____   |
| Bryan Keith Dunnivant | <i>Bryan Keith Dunnivant</i> | 8/24/21 |
| John Roberts          | _____                        | _____   |
| Paul A. Dinnage       | _____                        | _____   |
| Wei Fang              | _____                        | _____   |

Witness: \_\_\_\_\_

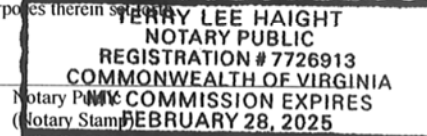
STATE OF: Virginia

COUNTY OF: Rockbridge

On this 24 day of August, 2021, before me personally appeared Bryan Dunnivant

to me known and known to me to be the individual(s) described in and who executed the foregoing instrument, and who thereupon acknowledged to me that he she / they (circle one) executed the same for the purposes therein set forth.

(Seal)



**ASSIGNMENT RE NON-PROVISIONAL APPLICATION FOR ALL COUNTRIES**

FOR VALUE RECEIVED, WE, **Michael Boucher**, a citizen of the United States of America, residing in Lexington, Virginia; **Rafael Neuwald**, a citizen of Brazil, residing in Lexington, Virginia; **Bryan Keith Dunnavant**, a citizen of the United States of America, residing in Lexington, Virginia; **John Roberts**, a citizen of the United States of America, residing in Buena Vista, Virginia; **Paul A. Dinnage**, a citizen of the United States of America, residing in Trinity, Florida; and **Wei Fang**, a citizen of the United States of America, residing in San Antonio, Texas, hereby sell, assign, transfer and convey unto **Munters Corporation**, a corporation of the United States, having a place of business at 225 Magnolia Avenue, Buena Vista, VA 24416, its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for all countries, in and to certain inventions relating to

**ACTIVE/PASSIVE COOLING SYSTEM**

and described in an application for Letters Patent of the United States, Application No. 17/395,873, filed on August 6, 2021, and an application for Letters Patent of Australia, Application No. 2021212117, filed on August 6, 2021, and in and to said applications, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority so to do, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as it may designate.

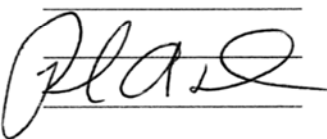
AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file or like document which may be required in any country or region for any purpose and more particularly in proof of the right of the said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND we hereby covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent or other grants of protection of said inventions in any and all countries and regions.

IN TESTIMONY WHEREOF, I hereunto set my hand:

| Name                  | Signature                                                                           | Date    |
|-----------------------|-------------------------------------------------------------------------------------|---------|
| Michael Boucher       | _____                                                                               | _____   |
| Rafael Neuwald        | _____                                                                               | _____   |
| Bryan Keith Dunnavant | _____                                                                               | _____   |
| John Roberts          | _____                                                                               | _____   |
| Paul A. Dinnage       |  | 9/28/21 |
| Wei Fang              | _____                                                                               | _____   |

Witness: \_\_\_\_\_

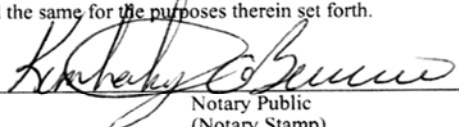
STATE OF: Florida

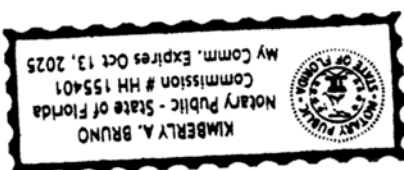
COUNTY OF: Polk

On this 23 day of September, 2021, before me personally appeared Paul Dinnage FL Driver License

to me known and known to me to be the individual(s) described in and who executed the foregoing instrument, and who thereupon acknowledged to me that he / she / they (circle one) executed the same for the purposes therein set forth.

(Seal)

  
Notary Public  
(Notary Stamp)



**ASSIGNMENT RE NON-PROVISIONAL APPLICATION FOR ALL COUNTRIES**

FOR VALUE RECEIVED, WE, **Michael Boucher**, a citizen of the United States of America, residing in Lexington, Virginia; **Rafael Neuwald**, a citizen of Brazil, residing in Lexington, Virginia; **Bryan Keith Dunnivant**, a citizen of the United States of America, residing in Lexington, Virginia; **John Roberts**, a citizen of the United States of America, residing in Buena Vista, Virginia; **Paul A. Dinnage**, a citizen of the United States of America, residing in Trinity, Florida; and **Wei Fang**, a citizen of the United States of America, residing in San Antonio, Texas, hereby sell, assign, transfer and convey unto **Munters Corporation**, a corporation of the United States, having a place of business at 225 Magnolia Avenue, Buena Vista, VA 24416, its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for all countries, in and to certain inventions relating to

**ACTIVE/PASSIVE COOLING SYSTEM**

and described in an application for Letters Patent of the United States, Application No. 17/395,873, filed on August 6, 2021, and an application for Letters Patent of Australia, Application No. 2021212117, filed on August 6, 2021, and in and to said applications, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority so to do, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file or like document which may be required in any country or region for any purpose and more particularly in proof of the right of the said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND we hereby covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent or other grants of protection of said inventions in any and all countries and regions.

IN TESTIMONY WHEREOF, I hereunto set my hand:

| Name                  | Signature                                                                           | Date      |
|-----------------------|-------------------------------------------------------------------------------------|-----------|
| Michael Boucher       | _____                                                                               | _____     |
| Rafael Neuwald        | _____                                                                               | _____     |
| Bryan Keith Dunnivant | _____                                                                               | _____     |
| John Roberts          | _____                                                                               | _____     |
| Paul A. Dinnage       | _____                                                                               | _____     |
| Wei Fang              |  | 9/10/2021 |

Witness: \_\_\_\_\_

STATE OF: Texas

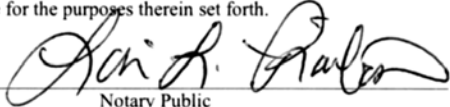
COUNTY OF: Bexar

) ss.:

On this 10 day of September, 2021, before me personally appeared Wei Fang

to me known and known to me to be the individual(s) described in and who executed the foregoing instrument, and who thereupon acknowledged to me that he / she / they (circle one) executed the same for the purposes therein set forth.

(Seal)

  
Notary Public  
(Notary Stamp)



**ASSIGNMENT RE NON-PROVISIONAL APPLICATION FOR ALL COUNTRIES**

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IN TESTIMONY WHEREOF, I hereunto set my hand:

| Name                  | Signature                                                                           | Date      |
|-----------------------|-------------------------------------------------------------------------------------|-----------|
| Michael Boucher       | _____                                                                               | _____     |
| Rafael Neuwald        | _____                                                                               | _____     |
| Bryan Keith Dunnavant | _____                                                                               | _____     |
| John Roberts          |  | 8/26/2021 |
| Paul A. Dinnage       | _____                                                                               | _____     |
| Wei Fang              | _____                                                                               | _____     |

Witness: \_\_\_\_\_

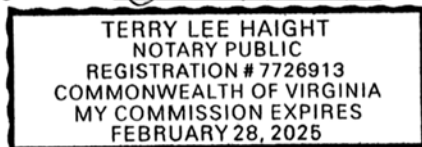
STATE OF: Virginia

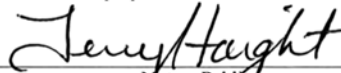
COUNTY OF: Rockbridge

On this 26 day of August, 2021, before me personally appeared John Roberts

to me known and known to me to be the individual(s) described in and who executed the foregoing instrument, and who thereupon acknowledged to me that (he) / she / they (circle one) executed the same for the purposes therein set forth.

(Seal)



  
Notary Public  
(Notary Stamp)