

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7902520

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DENNIS THOREN	08/09/2019
TAO JIA	08/31/2017
JACKY CHEN	08/05/2019
CHRIS BELLSHAW	08/05/2019
SHAWN BEUS	08/05/2019
KELLY HEARNSBERGER	08/20/2019
FRED BOULD	10/19/2017
BYRON LEE	10/19/2017
JEREMY WOLF	10/19/2017
JAMIE PERIN	10/19/2017
RYOHEI HINOKUMA	09/23/2017

RECEIVING PARTY DATA

Name:	DAIKIN MANUFACTURING COMPANY, L.P.
Street Address:	DAIKIN TEXAS TECHNOLOGY PARK
Internal Address:	19001 KERMIER RD
City:	WALLER
State/Country:	TEXAS
Postal Code:	77484

PROPERTY NUMBERS Total: 9

Property Type	Number
Application Number:	29608988
Application Number:	29608989
Application Number:	29608990
Application Number:	29608991
Application Number:	29608992
Application Number:	29608993
Application Number:	29608994
Application Number:	29684884
Application Number:	29684054

PATENT

CORRESPONDENCE DATA**Fax Number:**

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: 7132635833
Email: ross.apffel@daikincomfort.com
Correspondent Name: ROSS APFFEL
Address Line 1: DAIKIN TEXAS TECHNOLOGY PARK
Address Line 2: 19001 KERMIER RD
Address Line 4: WALLER, TEXAS 77484

NAME OF SUBMITTER:	ROSS APFFEL
SIGNATURE:	/Ross Apffel/
DATE SIGNED:	04/14/2023

Total Attachments: 20

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source=GMC 20022-20028 Combined Assignment#page20.tif



ASSIGNMENT

Whereas

- Dennis Thoren,
- Tao Jia
- Jacky Chen
- Chris Bellshaw
- Shawn Beus
- Kelly Hearnberger
- Fred Bould,
- Byron Lee,
- Jeremy Wolf
- Jamie Perin

("the Inventors") have conceived—while as an employee of, or a contractor or consultant to, Bould Design LLC, Daikin North America LLC, or Daikin Manufacturing Company L.P. ("the Employers")—certain inventions or improvements disclosed or described in U.S. Patent Application Nos.

- 29/608,988;
- 29/608,989;
- 29/608,990;
- 29/608,991;
- 29/608,992;
- 29/608,993; and
- 29/608,994;

each of which is entitled "HVAC Control Device" and was filed on June 27, 2017 ("the Filed Applications").

Whereas the Inventors and the Employers are desirous of, and intend for, all rights in and to the inventions and improvements described or disclosed the Filed Application to be held by Daikin Manufacturing L.P. ("Assignee"), which is a Texas limited partnership having a place of business at 19001 Kermier Road, Waller, Texas 77484.

1. The Inventors and Employers, for good and valuable consideration, the sufficiency of which are acknowledged, agree to assign, and hereby do assign, to Assignee their entire interest in (i) any inventions or improvements disclosed in the Filed Applications; (ii) the Filed Applications and all other patent applications that have been or will be filed in the United States or in other countries based on any such inventions or improvements; and (iii) any patents issuing from these Filed Applications or other such patent applications.
2. The Inventors and Employers agree that the Assignee has the right to apply for patents and file additional patent applications under the provisions of any law, convention, or treaty, and to claim priority based on the Filed Applications or any inventions or improvements disclosed therein.
3. For any patent application assigned herein, the Inventors and Employers, authorize and request that the issuing authority grant and issue such patent to the Assignee.
4. The Employers and Inventors each covenant, individually and separately, that (i) there are no agreements with another not party to this Assignment that would affect the rights and property assigned herein and (ii) they have the right to enter into the present Assignment with Assignee.



5. To carry out in good faith the intent of this Assignment, the Inventors and Employers agree—upon the request and expense of Assignee but without further consideration—to: (i) execute any lawful papers deemed by the Assignee to be necessary to secure, maintain, or enforce patent protection for the inventions and improvements assigned herein and (ii) cooperate with the Assignee in any dispute involving any patent application or patent assigned herein, including joining suit if necessary.
6. Each of the Inventors, individually and separately, agrees to communicate to the Assignee all facts known to him or her relating to such inventions and improvements assigned herein.

The Assignee agrees to receive the interests and rights assigned above. And the duties and benefits set forth in this Assignment extend to the respective successors of the undersigned and the Assignee.

The Inventors, Employers, and Assignee agree that the validity and interpretation of this Assignment shall be governed by the laws of the State of Texas, without giving effect to Texas' choice-of-law principles.

By Dennis Thoren

Signature:



Date:

August 09, 2019

The State of:

TEXAS

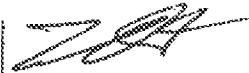
The County of:

HARRIS

Before me, the undersigned authority, on this day personally appeared Dennis Thoren, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Dennis Thoren executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 09 day of August, ~~2017~~ ²⁰¹⁹ ~~2017~~ ND

Signature:

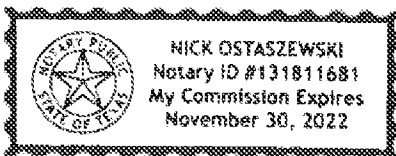


Notary Public for
the State of

TEXAS

My commission
expires:

11/30/2022



By Tao Jia

Signature:



Date:

8/31/17

The State of:

Texas

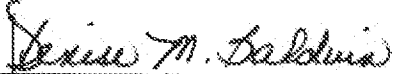
The County of:

Waller

Before me, the undersigned authority, on this day personally appeared Tao Jia, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Tao Jia executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 9th day of August, 2017, 2019

Signature:

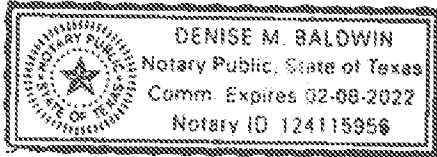


Notary Public for
the State of

Texas

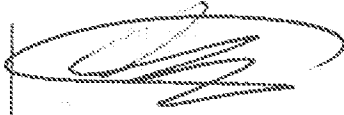
My commission
expires:

02-08-2022



By Jacky Chen

Signature:



Date:

8/5/2019

The State of:

Texas

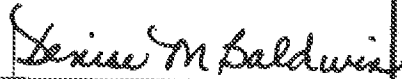
The County of:

Waller

Before me, the undersigned authority, on this day personally appeared Jacky Chen, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Jacky Chen executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 5th day of August, 2019

Signature:

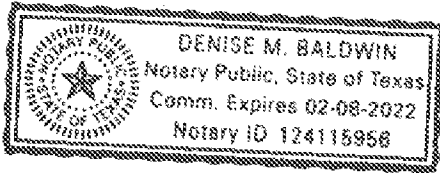


Notary Public for
the State of

Texas

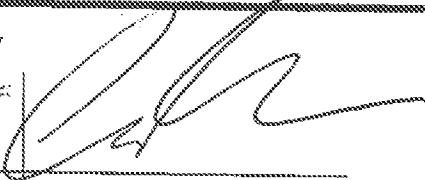
My commission
expires:

02-08-2022



By Chris Bellshaw

Signature:



Date:

8/5/19

The State of:

Texas

The County of:

Waller

Before me, the undersigned authority, on this day personally appeared Chris Bellshaw, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Chris Bellshaw executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this ^{5th} day of August, 2019.

Signature:

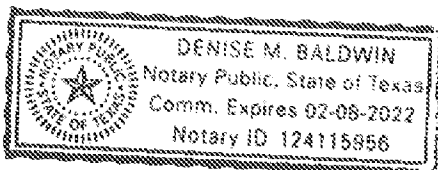


Notary Public for
the State of

Texas

My commission
expires:

02-08-2022



By Shawn Beus

Signature:

Shawn Beus

Date:

Aug. 5, 2019

The State of:

Texas

The County of:

Waller

Before me, the undersigned authority, on this day personally appeared ^{*Shawn*} ~~Shawn~~ Beus, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that ~~Shawn~~ Beus executed the same for the purposes and consideration therein expressed. *Shawn*

Given under my hand and seal of office this ^{*5th*} day of *August*, ^{*2019*} ~~2017~~.

Signature:

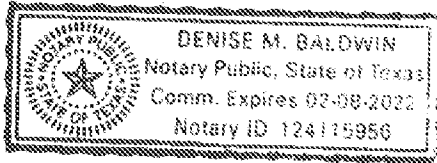
Denise M. Baldwin

Notary Public for
the State of

Texas

My commission
expires:

02-08-2022



By Kelly Hearnberger

Signature:

[Handwritten Signature]

Date:

20 Aug 2019

The State of:

Texas

The County of:

Waller

Before me, the undersigned authority, on this day personally appeared Kelly Hearnberger, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Kelly Hearnberger executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 20 day of August, 2019

Signature:

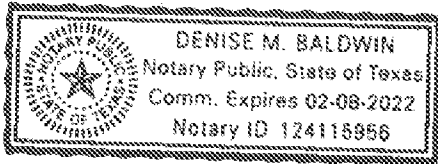
[Handwritten Signature: Denise M. Baldwin]

Notary Public for the State of

Texas

My commission expires:

February 8, 2022



By Fred Bould

Signature:

Fred Bould

Date:

10/19/17

The State of:

California

The County of:

San Mateo

Before me, the undersigned authority, on this day personally appeared Fred Bould, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Fred Bould executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this *19th* day of *October*, 2017.

Signature:

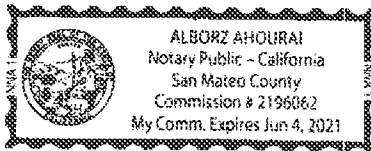
Alborz Ahourai

Notary Public for
the State of

California

My commission
expires:

June 4, 2021



Also See the Attached Amended California Acknowledgement

By Byron Lee

Signature:

Byron Lee

Date:

10/19/2017

The State of:

California

The County of:

San Mateo

Before me, the undersigned authority, on this day personally appeared Byron Lee, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Byron Lee executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this *19th* day of *October*, 2017.

Signature:

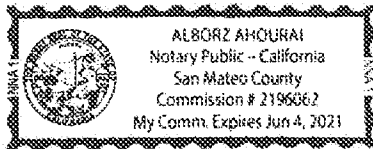
Ahmed

Notary Public for
the State of

California

My commission
expires:

June 4, 2021



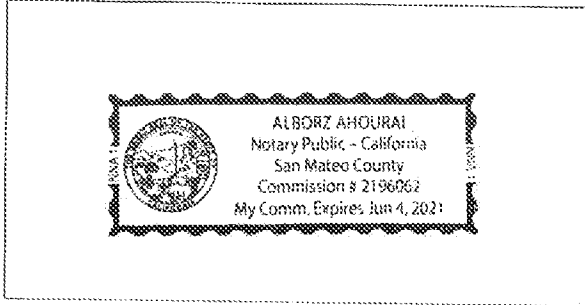
Also see the attached amended California Acknowledgment.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Mateo

On 19th day of October, 2017, before me, Alborz Ahourai (the Notary Public), personally appeared Fred Bould and Byron Lee, proved to me on the basis of satisfactory evidence to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.



"I certify under Penalty of Perjury under the laws of the State of California that the foregoing paragraph is true and correct."

WITNESS my hand and official seal.

Alborz Ahourai

Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document

Description of Attached Document

Title or Type of Document: DAIKIN ASSIGNMENT / applications Numbers:
29/608,988, 29/608,989, 29/608,990, 29/608,991, 29/608,992, 29/608,993, 29/608,994

Document / Execution Date: October 19, 2017 Number of Attached Pages: Twelve

Signer(s) Other Than Named Above: N/A

Capacity(ies) Claimed by Signer:

- Individual
- Corporate Officer – Title(s) _____
- Partner – Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer is Representing: Inventors /
Applicants

Fred Bould

RIGHT THUMB PRINT
OF SIGNER

Top of Thumb Here

Fred Bould

Signer Signature

Byron Lee

RIGHT THUMB PRINT
OF SIGNER

Top of Thumb Here

Byron Lee

Signer Signature



007N Notary San Mateo
Mobile Service ... 650.520.8901
Email: NotaryAppointment@gmail.com

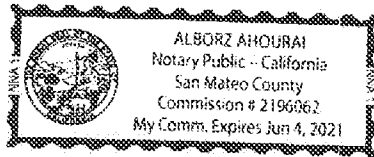
By Jeremy Wolf

Signature: [Handwritten Signature]
Date: 10/19/2017

The State of: California
The County of: San Mateo

Before me, the undersigned authority, on this day personally appeared Tao Jia, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Tao Jia executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 19th day of October, 2017.




Signature: [Handwritten Signature]

Notary Public for
the State of California

My commission
expires: June 4, 2021

Also see the attached amended California Acknowledgment

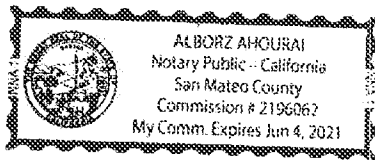
By Jamie Perin

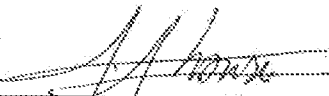
Signature:	
Date:	10 / 19 / 2017

The State of:	California
The County of:	San Mateo

Before me, the undersigned authority, on this day personally appeared Dennis Thoren, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Dennis Thoren executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 19th day of October, 2017.



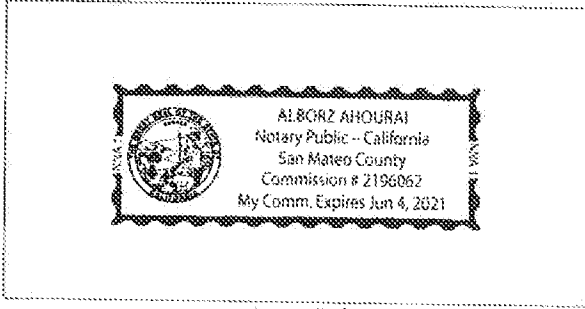
Signature:	
Notary Public for the State of	California
My commission expires:	June 4, 2021

CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Mateo

On 19th day of October, 2017, before me, Alborz Ahourai (the Notary Public), personally appeared Jeremy Wolf and Jamie Perin, proved to me on the basis of satisfactory evidence to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.



Notary Seal

"I certify under Penalty of Perjury under the laws of the State of California that the foregoing paragraph is true and correct."

WITNESS my hand and official seal.

Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: DAIKIN ASSIGNMENT/Applications Numbers:

29/608,988, 29/608,989, 29/608,990, 29/608,991, 29/608,992, 29/608,993 & 29/608,994

Document / Execution Date: October 19, 2017

Number of Attached Pages: Twelve

Signer(s) Other Than Named Above: N/A

Capacity(ies) Claimed by Signer:

- Individual
- Corporate Officer -- Title(s) _____
- Partner -- Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer is Representing: Inventors/
Applicants

Jeremy Wolf

RIGHT THUMB PRINT OF SIGNER
Top of Thumb Here

Signer Signature

Jamie Perin

RIGHT THUMB PRINT OF SIGNER
Top of Thumb Here

Signer Signature



007N Notary San Mateo

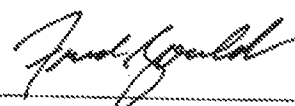
Mobile Service ... 650.520.8801

Email: NotaryAppointment@gmail.com


PATENT

REEL: 063329 FRAME: 0622

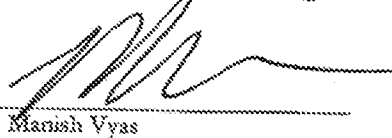
By Bould Design LLC

Signature:	
Printed Name:	FRED BOULD
Title:	PRINCIPAL PARTNER
Date:	8/2/19

By Daikin North America LLC

Signature:	
Printed Name:	Manish Vyas
Title:	IP Legal Director, Assistant Secretary
Date:	8-2-2019

Daikin Manufacturing Company, L.P.
a dba of Goodman Manufacturing Company L.P.

Signature:	
Printed Name:	Manish Vyas
Title:	IP Legal Director, Assistant Secretary of Authorized General Partner
Date:	8-2-2019



ASSIGNMENT

Whereas

- Dennis Thoren,
- Tao Jia,
- Jacky Chen,
- Chris Bellshaw,
- Shawn Beus,
- Kelly Hearnberger,
- Fred Bould,
- Byron Lee,
- Jeremy Wolf,
- Jamie Perin, and
- Ryohei Hinokuma.

("the Inventors") have conceived certain inventions or improvements disclosed or described in U.S. Patent Application Nos.:

- 29/608,988;
- 29/608,989;
- 29/608,990;
- 29/608,991;
- 29/608,992;
- 29/608,993; and
- 29/608,994;

each of which is entitled "HVAC Control Device" and was filed on June 27, 2017 ("the Filed Applications").

Whereas Mr. Ryohei Hinokuma ("Mr. Hinokuma") is an employee of Daikin U.S. Corporation ("Employer"), which has a place of business at 475 Fifth Avenue (21st floor), New York, NY 10071, and is a corporate affiliate of Daikin Manufacturing Company, L.P. ("Assignee"), which is a Texas limited partnership having a place of business at 19001 Kennier Road, Waller, Texas 77484.

Whereas the Mr. Hinokuma and the Employer are desirous of, and intend for, all rights in and to the inventions and improvements described or disclosed the Filed Applications to be held by Assignee.

Accordingly, the undersigned parties to this assignment ("this Assignment") agree as follows:

1. Mr. Hinokuma and Employer, for good and valuable consideration, the sufficiency of which are acknowledged, agree to assign, and hereby do assign, to Assignee their entire interest in (i) any inventions or improvements disclosed in the Filed Applications; (ii) the Filed Applications and all other patent applications that have been or will be filed in the United States or in other countries based on any such inventions or improvements; and (iii) any patents issuing from these Filed Applications or other such patent applications.
2. Mr. Hinokuma and Employer agree that the Assignee has the right to apply for patents and file additional patent applications under the provisions of any law, convention, or treaty, and to claim priority based on the Filed Applications or any inventions or improvements disclosed therein.
3. For any patent application assigned herein, Mr. Hinokuma and Employer, authorize and request that the issuing authority grant and issue such patent to the Assignee.

••
••

4. Mr. Hinokuma covenants (i) that there are no agreements with another not party to this Assignment that would affect the rights and property assigned herein and (ii) that he has the right to enter into the present Assignment with Assignee.
5. To carry out in good faith the intent of this Assignment, the Mr. Hinokuma and Employer agree—upon the request and expense of Assignee but without further consideration—to: (i) execute any lawful papers deemed by the Assignee to be necessary to secure, maintain, or enforce patent protection for the inventions and improvements assigned herein and (ii) cooperate with the Assignee in any dispute involving any patent application or patent assigned herein, including joining suit if necessary.
6. Mr. Hinokuma agrees to communicate to the Assignee all facts known to him relating to such inventions and improvements assigned herein.
7. Nothing in this Assignment shall be construed as requiring Mr. Hinokuma to assign any rights to an invention that
 - a. was made entirely on Mr. Hinokuma's time and entirely without using the Employer's or any of the Employer's corporate relatives' equipment, supplies, facilities, resources, trade secrets or other confidential information;
 - b. does not relate to the Employer's or Employer's corporate relatives' business, or actual or reasonably anticipated research or development; and
 - c. did not result from any work performed by Mr. Hinokuma for the Employer.
8. **NOTICE:** California Labor Code Section 2870 provides as follows:

Any provision in an employment agreement which provides that an employee shall assign, or offer to assign, any of his or her rights in an invention to his or her employer shall not apply to an invention that the employee developed entirely on his or her own time without using the employer's equipment, supplies, facilities, or trade secret information except for those inventions that either: (1) relate at the time of conception or reduction to practice of the invention to the employer's business, or actual or demonstrably anticipated research or development of the employer; or (2) result from any work performed by the employee for the employer. To the extent a provision in an employment agreement purports to require an employee to assign an invention otherwise excluded from being required to be assigned under California Labor Code Section 2870(a), the provision is against the public policy of this state and is unenforceable.

The Assignee agrees to receive the interests and rights assigned above. And the duties and benefits set forth in this Assignment extend to the respective successors of the Assignee.

Mr. Hinokuma, Employer, and Assignee agree that the validity and interpretation of this Assignment shall be governed by the laws of the State of Texas, without giving effect to Texas' choice-of-law principles.

By Mr. Hinokuma

Signature:

Ryohei Hinokuma
9.23.2017

Ryohei Hinokuma
9.23.2017

Date:

The State of:

The County of:

Before me, the undersigned authority, on this day personally appeared *Ryohei Hinokuma*, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that Ryohei Hinokuma executed the same for the purposes and consideration herein expressed.

Given under my hand and seal of office this _____ day of _____, 2017.

Signature:

Notary Public for
the State of

My commission
expires:

See attached loose certificate

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Mateo
On September 23, 2017 before me, Jonathan T. Chan, Notary Public
personally appeared Ryohei Hinokuma

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies); and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Handwritten Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

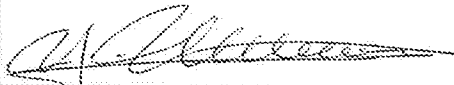
Description of Attached Document
Title or Type of Document: DAIKIN - Assignment
Document Date: September 23, 2017 Number of Pages: Two (2)
Signer(s) Other Than Named Above: NONE

Capacity(ies) Claimed by Signer(s)

Signer's Name: Ryohei Hinokuma
[] Corporate Officer -- Title(s):
[] Partner -- [] Limited [] General
[X] Individual [] Attorney in Fact
[] Trustee [] Guardian or Conservator
[] Other:
Signer Is Representing:

Signer's Name:
[] Corporate Officer -- Title(s):
[] Partner -- [] Limited [] General
[] Individual [] Attorney in Fact
[] Trustee [] Guardian or Conservator
[] Other:
Signer Is Representing:

By Daikin U.S. Corporation

Signature:	
Printed Name:	Yoshiyuki Uemura
Title:	President
Date:	10/6/2017

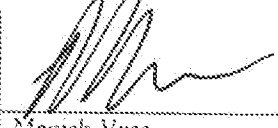
Daikin Manufacturing Company, L.P.

Signature:	
Printed Name:	Manish Vyas
Title:	IP Legal Director, Assistant Secretary of Authorized General Partner
Date:	

By Daikin U.S. Corporation

Signature:	
Printed Name:	Yoshiyuki Uemura
Title:	President
Date:	

Daikin Manufacturing Company, L.P.
a dba of Cadman Manufacturing Company L.P.

Signature:	
Printed Name:	Manish Vyas
Title:	IP Legal Director, Assistant Secretary of Authorized General Partner
Date:	Aug. 2-2019