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 REEL: 063329 FRAME: 0608

507855382

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

source=GMC 20022-20028 Combined Assignment#page1.tif source=GMC 20022-20028 Combined Assignment#page2.tif source=GMC 20022-20028 Combined Assignment#page3.tif source=GMC 20022-20028 Combined Assignment#page4.tif source=GMC 20022-20028 Combined Assignment#page5.tif source=GMC 20022-20028 Combined Assignment#page6.tif source=GMC 20022-20028 Combined Assignment#page7.tif source=GMC 20022-20028 Combined Assignment#page8.tif source=GMC 20022-20028 Combined Assignment#page9.tif source=GMC 20022-20028 Combined Assignment#page10.tif source=GMC 20022-20028 Combined Assignment#page11.tif source=GMC 20022-20028 Combined Assignment#page12.tif source=GMC 20022-20028 Combined Assignment#page13.tif source=GMC 20022-20028 Combined Assignment#page14.tif source=GMC 20022-20028 Combined Assignment#page15.tif source=GMC 20022-20028 Combined Assignment#page16.tif source=GMC 20022-20028 Combined Assignment#page17.tif source=GMC 20022-20028 Combined Assignment#page18.tif source=GMC 20022-20028 Combined Assignment#page19.tif source=GMC 20022-20028 Combined Assignment#page20.tif

> PATENT REEL: 063329 FRAME: 0609



ASSIGNMENT

Whereas

- · Dennis Thoren,
- · Tao lia
- · Jacky Chen
- Chris Bellshaw

- · Shawn Beus
- Kelly Hearnsberger
- 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;

29/608,991;

29/608,994;

29/608,989;

29/608,992;

29/608,990;

29/608,993; and

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.
- 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 our 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.
- 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.

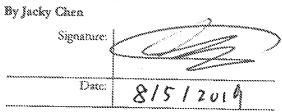
The Assignee agrees to receive the interests and rights assigned above. And the duties and benefits set forth in this Assignment extend to the respective successors of the undersigned and the Assignee.

The Inventors, Employers, and Assignce 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:	24		
Date:	AUgus	Dy 2019	
The State of:	TEXAS		
The County of:	HARRIS		
the person whose name i Thoren executed the same	s subscribed to the for for the purposes and or	regoing instrument, and ack consideration therein expresse day of <u>Ausust</u> , 344	. i > 6°
		Signature:	
(\$72)	.	Notary Public for	
MICK I	DSTASZEWSKI	the State of	TEAKS
Notary I	mission Expires		•
Notary My Come Novem	mission Expires aber 30, 2022	My commission	•

Page 2 of 12

By Tao Jia			
Signature:	pro		
Date:	8/31/17		
The State of:	Teyas Walley		
The County of:	hallen		
whose name is subscribed	to the foregoing instrumed consideration therein expre-	nt, and acknowledged s ssed.	s, known to me to be the person to me that Tao Jia executed the
	,,,,,,,,,,,	Signature:	Derice M. Daldwin
Start DENI	SE M. BALOWIN ublic, State of Texas Expires 02-08-2022	Notary Public for the State of	Texas
Some Notes	Expires (32-08-2022 v ID 124115956	My commission expires:	02-08-2022



The State of	Telas		
The County of:	inller		
ccuted the same for the pu	ansea to the foregoing	instrument, and acknow	vledged to me that Jacky Chen
ven under my hand and se	al of office this <u>5</u> th _{day}	of Mugust, 22	
ven under my hand and set	al of office this <u>5</u> th _{day}	of August, 2017 Signature:	Series M Baldw

By Chris Bellshaw			
Signature:		and the state of t	
Date	9,-1,,,		
***************************************	10/24/9	***************************************	
The State of:	Teyas		
The County of:	Teyas Waller		
person whose name is sub- executed the same for the	d authority, on this day person scribed to the foregoing instruction the purposes and consideration the seal of office this 5 day of the seal of office this 5 day person that the seal of the seal	rument, and acknowle herein expressed. I August, 2017.	St.
		Signature:	Serise MBaldweg
A Service Notice	NISE M. BALDWIN	Notary Public for the State of	Telas
Company No	y Public, State of Texas n. Expires 02-08-2022 tary ID 124115958	My commission expires:	02-08-2022
	and the offer.		

*

By Shawn Beus			
Signature:	Davn Gu	Ž	
Date:	Oug. 5,2019		Annua (C. C. C
The State of:	Teyas		
The County of	Walley		
person whose name is so executed the same for the	ed authority, on this day per obscribed to the foregoing is purposes and consideration to seal of office this head ay o	astrument, and ackno herein expressed.	r Beus, known to me to be the wledged to me that Sem Beus ************************************
		Signature:	Genino Moldeni
and and the all the al		Notary Public for	
	NISE M. BALDWIN y Public, State of Toxas	the State of	Telas
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No. Of the No.	tary ID 124115956	expires:	02.08-2022
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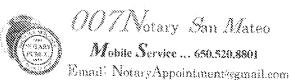
By Kelly Hearnsberg	rer		
Signature:	1464	· Warness	
Date	30	hy2019	
The Stare of:	Texas Waller		
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the County or:	Walled		
re me, the undersigne	d authority, on this day pe	rsonally appeared Kelly	Heamsberger, known to me to
re me, the undersigne te person whose nam	d authority, on this day pe c is subscribed to the fore same for the purposes and	going instrument, and consideration therein ex	acknowledged to me that Kelly pressed.
re me, the undersigne to person whose nam the secuted the secured	d authority, on this day pe e is subscribed to the force same for the purposes and seal of office this 20 day	going instrument, and consideration therein ex	acknowledged to me that Kelly pressed 2019
re me, the undersignence person whose name the second the second the second and and second the seco	d authority, on this day pe c is subscribed to the forciame for the purposes and seal of office this 20 , day	egoing instrument, and consideration therein ex of August. 2012 Signature: Notary Public for	acknowledged to me that Kelly pressed 2019 - Seniu Maldu
re me, the undersignence person whose name oberger executed the secondary band and DEF	d authority, on this day pe e is subscribed to the forci ame for the purposes and seal of office this 20 day	going instrument, and consideration therein ex of August , 2012 Signature	acknowledged to me that Kelly pressed 2019 - Seniu Maldu

By Fred Bould	
Signature	Jud/ Spull
Date	10/19/17
The State of	
The County of	San Mates
person whose name is seexcuted the same for the	ned authority, on this day personally appeared Fred Bould, known to me to be the subscribed to the foregoing instrument, and acknowledged to me that Fred Bould appropriate purposes and consideration therein expressed. d seal of office this 19 day of 00 day. 2017.
* n n	Signature:
	ALBORZ AHOURAL Notary Public - California San Mateo Courry Commission & 2196062 My Comm. Expires Jun 4, 2021 My commission expires: My commission California Californi
000000000000000000000000000000000000000	Also Lee the Marked amended Colfonia
	a Cechnan edgement

By Byron Lee			***************************************
Signature:	Bosh		
Date:	10/19/2017		
The State of:	Coliberia		
The County of:	Son Males		
person whose name is sul- executed the same for the p	ed authority, on this day person bscribed to the foregoing instruction the purposes and consideration the seal of office this LP day of	trument, and acknow erein expressed.	n Lee, known to me to be the vledged to me that Byzon Lee
		Signature:	4/4000
ALE Notary Sar	BORZ AHOURAL Public - California n Mateo County	Notary Public for the State of	California
8 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	mission # 2196062 m. Expires Jun 4, 7021	My commission expires:	June 4,2021
Also See The	Totalled anien	ded Californ	ia acknowledge root.

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 19 day of October _____, 2017, before me, Alborz Ahourai (the Notary Public), personally and Buran Lea , proved to me on the appeared FO21 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." ALBORZ AHOURAL Notary Public - California San Mateo County WITNESS my hand and official seal. Commission # 2196062 My Comm, Expires Jun 4, 2021 Photogra Seas OPTIONALThough the information below is not required by low, it may prove valuable to persons relying on the document and could previous fraudulent removal and realtachment of this form to catalog document Description of Attached Document Title or Type of Document: 1)/41/ Document / Execution Date: 00 Number of Attached Pages: Twell Signer(s) Other Than Named Above: N/A Capacity(ies) Claimed by Signer: RIGHT THUMB PRINT RIGHT THUMB PRINT OF SIGNER OF SIGNER □ Individual o of Thumb Heri Corporate Officer – Title(s) o Partner - Limited General Attorney in Fact a Trustee Guardian or Conservator Other: Signer is Representing: $\int n V e^{-t} r dt$



PATENT

REEL: 063329 FRAME: 0619

By Jeremy Wolf			
Signature:		ne de la companya de	
	HATTON	•	
Date:	X1010	NAME OF THE PARTY	
	15/14/2017		
The State of	1 0	***************************************	00000000000000000000000000000000000000
	California		
The County of:	San Moten	on the same of the	
	1 2000 /11/10/00		
Before me, the undersigne	d authority, on this day nerso	nally appeared Tas Iio	, known to me to be the person
whose name is subscribed	l to the foregoing instrument	, and acknowledged to	o me that Tao Jia executed the
same for the purposes and	consideration therein express	sed.	
Given under my hand and	seal of office this 11th day of	1 10-100-l (2017.	
80_80_80_80_80_80		Signature:	1/1/
	ALBORZ AHOURAI		
	Notary Public California San Mateo County Commission # 2196962	Notary Public for the State of	Add Carrie
	My Comm. Expires Jun 4, 2021	the State of	California
	and the first firs	My commission	T 1/201
		expires:	June 4, 2621
Also See the	attacked amended	California ad	Lundal Baco A
	**************************************	Marine Marine State Constitution of the Consti	indexecolocidade de la companya del companya de la companya del companya de la co

By Jamie Perin			
Signature:)	
Date:	10/19/2017	********	
The State of: The County of:	California San Mateo		000000000000000000000000000000000000000
the person whose name is Thoren executed the same	ed authority, on this day pers subscribed to the foregoing for the purposes and conside seal of office this day or	g instrument, and ack ration therein express	
		Signature:	Along
	ALBORZ AHOURAI otary Public Californio San Mateo County ommission is 2195062 omm. Expires Jun 4, 2021	Notary Public for the State of My commission expires:	California June 1, 202)
	000000000000000000000000000000000000000	***************************************	

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 day of 10 Charles _____, 2017, before me, Alborz Ahourai (the Notary Public), personally appeared Jesem 1/2 Up) H and <u>Tamie Perin</u>, 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." ALBORZ AHOURAL Notary Public -- California San Mateo County WITNESS my hand and official seal. Commission # 2196062 My Comm. Expires Jun 4, 2021 Francy Send Signature of Notary Public OPTIONALThough the information below is not required by law, it may prove valuable to pursons relying on the document and could frevent fraudulent removal and realiachment of this form to another descreens Description of Attached Document Title or Type of Document: DAI Document / Execution Date: 100 Number of Attached Pages: Tible NC Signer(s) Other Than Named Above: N/A Je remu Capacity(ies) Claimed by Signer: RIGHT THUMB PRIN RIGHT THUMB PRINT OF SIGNER OF SIGNER □ Individual oo of Thiamh Have Sport Thumb Her □ Corporate Officer - Title(s) © Partner - Limited General Attorney in Fact O Trustee Guardian or Conservator Signer is Representing: 1/1/entire



PATENT

REEL: 063329 FRAME: 0622

By Bould Design LLC

Signstant	Julyould
Printed Name:	FRED FRUD
Tide:	MINKIPAL PARTOREZ.
Date:	8/2/19

By Daikin North America LLC

Signature: Manish Vyas

Title: IP Legal Director, Assistant Secretary

Date: 8-2-20/9

Printed Name: Manish Vyas

Title: IP Legal Director, Assistant Secretary of Authorized General Partner

Date: 8-2-2019



ASSIGNMENT

Whereas

- Dennis Thoren,
- Tao lia,
- Jacky Chen,
- · Chris Bellshaw,

- · Shawn Beus,
- · Kelly Hearnsberger,
- · 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;

29/608,991;

29/608,994;

- 29/608,989;
- 29/608.990;
- 29/608,992;
- 29/608,993; and

each of which is enritled "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.

⊗ ⊗ 30

> PATENT REEL: 063329 FRAME: 0624

- 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 Assignée 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 wirhout using the Employer's or any of the Employer's corporate relatives' equipment, supplies, facilities, resources, trade secrets or other confidential information;
 - does not relate to the Employer's or Employer's corporate relatives' business, or actual or reasonably anticipated research or development; and
 - 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		1.
Signature:	Palle	for the
Date:	9,23,2017	9.23,20/7
The State of:		
The County of:		
the person whose name i	d authority, on this day personally appeared levels subscribed to the foregoing instrument of action of the purposes and consideration when expires seal of office this	knowledged to me that Ryohei ressed.

CALIFORNIA ALL-PURPOSE ACKNOWLEDOME	WT CIVIL CODE § 118
A notary public or other officer completing this certificate vidocument to which this certificate is attached, and not the tru	erifies only the identity of the individual who signed the ithfulness, accuracy, or validity of that document.
personally appeared <u>Ryoller</u> Hino	Han T. Chan, Notany Ply Ma's Here Insert Name and Title of the Officer Kuma Jame(s) of Signer(s)
who proved to me on the basis of satisfactory evid subscribed to the within instrument and acknowledg his/her/their authorized capacity(iee); and that by his/he or the entity upon behalf of which the person(s) acted,	ed to me that he/she/they executed the same in tr/their signature(s) on the instrument the person(s)
of it is the JONATHAN T. CHAN COMM. #2048443	tify under PENALTY OF PERJURY under the laws se State of California that the foregoing paragraph and correct. NESS my hand and official seal. ature Signature of Notary Public
Place Notary Seal Above	o as c
Though this section is optional, completing this info fraudulent reattachment of this form	mation can deter alteration of the document or
Description of Attached Document Title or Type of Document: Document Date: September 23, 2017 Signer(s) Other Than Named Above:	ASSIZIMENT Number of Pages: TWg (2)
☐ Partner — ☐ Limited ☐ General ☐ ☐ Attorney in Fact ☐ ☐ Trustee ☐ Guardian or Conservator ☐ ☐ Other: ☐	Signer's Name:

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PATENT REEL: 063329 FRAME: 0627

By Daikin U.S. Corporation

Signature:	<u> </u>
Printed Name:	Yoshiyuki Uemura
Title:	President
Dates	10/6/2017

Daikin Manufacturing Company, L.P.

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

By Daikin U.S. Corporation

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

Daikin	Manufacturing	g Company, L.P.	LP
a dba	of Coulom	Menuhekiy Conford	
	Signature:	WW	

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

RECORDED: 04/14/2023