505924033 02/19/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5970751

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHUANBO WANG	11/15/2017

RECEIVING PARTY DATA

Name:	ILLINOIS TOOL WORKS INC.
Street Address:	155 HARLEM AVENUE
City:	GLENVIEW
State/Country:	ILLINOIS
Postal Code:	60025

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16640153

CORRESPONDENCE DATA

Fax Number: (617)395-7070

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: (617) 395-7039

Email: KFNPatents@LALaw.com

Correspondent Name: LANDO & ANASTASI, LLP

Address Line 1: RIVERFRONT OFFICE PARK

ONE MAIN STREET, SUITE 1100

Address Line 4: CAMBRIDGE, MASSACHUSETTS 02142

ATTORNEY DOCKET NUMBER:	E2005-7217US(67366-US)
NAME OF SUBMITTER:	KEITH F. NOE
SIGNATURE:	/Keith F. Noe/
DATE SIGNED:	02/19/2020

Total Attachments: 6

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PATENT REEL: 051859 FRAME: 0693 source=copy of executed Assignment from parent case#page6.tif

PATENT REEL: 051859 FRAME: 0694

ITW Case No.: 67366

ASSIGNMENT

THIS ASSIGNMENT is made by and between

2) 1) Chuanbo WANG (王传波) No. 5 Xiang Street, Tai Shan Road Suzhou New District, Jiangsu Province 215129 People's Republic of China 3) 4)

(hereinafter referred to as inventor(s)), and

ITW Electronics (Suzhou) Ca., Ltd (依工电子设备(苏州)有限公司) having a place of business at No. 5 Xiang Street, Tai Shan Road, Suzhou New District, Jiangsu Province 215129, People's Republic of China (中国江苏省苏州新区泰 山路向街 5号、邮编 215129) ("TTW EAE")

individually and collectively as Assignor(s), and

ILLINOIS TOOL WORKS INC., a corporation of the State of Delaware, U.S.A., having a place of business at 155 Harlem Avenue, Glenview, Illinois 60025, USA ("ITW")

as Assignee.

WHEREAS, inventor(s) is (are) employed in a technical capacity by ITW EAE;

WHEREAS, ITW EAE is a division, subsidiary, business unit or other entity of ITW;

WHEREAS, inventor(s) has (have) made one or more inventions (as identified below) (hereinafter individually or collectively referred to as "Invention"); and

WHEREAS, the parties hereto have at all times desired that ITW shall absolutely hold any and all rights (including, but not limited to, Application rights, Patent Rights, Utility Patent rights, Plant Patent rights, Design Patent rights, Priority rights) in the Invention in accordance with the assignment made herein.

NOW THEREFORE, for valuable and sufficient consideration from ITW to Assignor(s), receipt of such consideration being hereby acknowledged and intending to be legally sufficient, I/we hereby sell, assign and convey unto Assignee, its successors and assigns, my/our entire right, title and interest:

(1)	in	and	to	the	Inver	tion	entitled	64	种回法	。埃及		外 回	收方为	<u> </u>	Reflox	v Over	and	A Met	10d for
Reca	vering	<u> </u>	22.	for	which	I/we	have e	xecute	d, a P(T Pat	ent App	plicat	ion and	/or U	nited i	States I	atent	Applica	tion on
even	date	here	wit	h, a	ınd, li	i app	olicable,	which	h clain	is the	benefi	t of	United	State	s Pro	visiona	l App	dication	No(s).
				iled	OB		********	gor	which	is the	subjec	t of a	a <u>Chine</u>	<u>se</u> Pa	tent A	applicat	ion o	r a PCT	Patent
Appli	catio	n hay	ving	: Ch	inese	Pater	nt Appl	ication	No. 2	<u>)17107</u>	<u> 726250, </u>	or l	PCT Pa	tent A	pplica	ation N	o		
and w	as fil	ed oi	1 <u>A</u> 1	ugus	<u>st 22, 3</u>	<u> 2017:</u>													

Page 1 of 3



(2) in	and to an Invention entitl	ed "		" for which I/we previously	filed
United Sta	ites Provisional Applicatio	n No(s).	on		
and/or <u>Ch</u> throughou application thereon or said paten	inese Patent Application, to the world claiming price is, and legal equivalents the issued therefrom, includit or patents may be grante	pplication, United States Patent and in and to all other patent ority therefrom, as well as any sereof, based upon said forgoing ng reissues or the like thereof, id or issued, (if necessary for recer patent application(s)s and/or patent application(s)s	applications now divisional, conti- Invention, and in if any, to the full ordation purposes	or hereafter filed in any con- mation, reexamination and re- and to any patent or patents gra- end of the term or terms for w with any national or foreign pa	mtry ssue nted hich
	Country	Application / Patent	No. Filing	g / Issue or Grant Date	
	Country	Application / Patent	No. Filing	3 / Issue or Grant Date	

; and

in and to any and all priority rights, and any other application and patent rights in all of the above mentioned patent applications and patents.

I/we hereby authorize the Assignee and/or its agent or attorney to enter the Application No(s), and filing date(s) of the subject patent application(s) in the spaces provided above once received.

For the avoidance of any doubt, and without restricting the generality of this Assignment, it is confirmed by the Assignor(s) that the Assignee had the right to file the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or Chinese Patent Application, and shall have the right to file additional applications for protection of whatever form and in whichever countries it may choose to do so.

I/we agree that the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or Chinese Patent Application, and any patent applications of any countries which may be filed under any applicable international treaties and/or conventions based upon said Invention, shall be filed in the name of Assignee with the right to claim priority to the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or Chinese Patent Application based upon said Invention.

I/we further agree and authorize the Commissioner of Patents and Trademarks of the United States and all other appropriate government officials for applicable countries foreign to the United States to issue any and all above-identified patents to Assignee.

I/we hereby further agree that I/we shall, upon demand of Assignee, its successors or assigns, and without further consideration to me/us, execute any and all papers, make all rightful oaths and perform all acts that may be necessary, deemed by Assignee, its successors or assigns, to be necessary, to be a complete fulfillment of the intent and purposes its this Assignment, it being understood that any expense incident to the execution of such papers and oaths, and performance. of all applicable acts, shall be paid by Assignee, its successors and assigns, and not by me/us.

A CONTRACTOR OF THE PARTY OF TH Any and all rights Assignee takes under this Assignment are freely assignable or otherwise transferable by Assignee without any restriction whatsoever.

I/we hereby confirm my/our assignment absolutely to Assignee of any and all rights whatsoever that I/we may have in the subject matter hereof to the full extent that I/we would have had, had this assignment not been made.

The consideration for the Assignment is in the premises above but in deference to those jurisdictions where a monetary consideration is required to effect an assignment, Assignee agrees to pay each of the Assignors the sum of \$1 (one U.S.

Page 2 of 3

dollar) or such other sufficient amount as agreed to by the parties, the receipt, adequacy and sufficiency of which the Assignor(s) acknowledge on signature hereto.

1) Chuanbo WANG	2017:11:15	2)	
Name: Chuanbo WANG	Date	Name:	Date
3)		4)	
Name:	Date	Name:	Date
	DECLARATIO!	OF WITNESS	
person(s) named in this Assignment, d	uly sign and execute the		
Signature of Witness)		247- /1-15 e of Signature)	
For and on behalf of ITW Electronics (Suzhon) Co., Ltd. Name: (291) X Date: 3412-111	4 (anor) eV	COMPANY SEAL	
For and on behalf of ILLINOIS TOOL WORKS INC.		COMPANY SEAL	
Name;			the state of the s
Fitle:			
Date:			

Page 3 of 3

ITW Case No.: 67366-CN-UM

ASSIGNMENT

THIS ASSIGNMENT	is	made	by	and	between
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WHEREAS, inventor(s) has (have) made one or more inventions (as identified below) (hereinafter individually or collectively referred to as "Invention"); and

WHEREAS, the parties hereto have at all times desired that ITW shall absolutely hold any and all rights (including, but not limited to, Application rights, Patent Rights, Utility Patent rights, Plant Patent rights, Design Patent rights, Priority rights) in the Invention in accordance with the assignment made herein.

NOW THEREFORE, for valuable and sufficient consideration from ITW to Assignor(s), receipt of such consideration being hereby acknowledged and intending to be legally sufficient, I/we hereby sell, assign and convey unto Assignee, its successors and assigns, my/our entire right, title and interest:

(1) in and to the Invention entitled	-种回流焊炉(A Reflow Oven) " for which I/we have executed, a PCT
Patent Application and/or United States Pat		
benefit of United States Provisional Application	tion No(s), filed	on; or which is the subject
of a Chinese Patent Application or a PCT P	atent Application having Chinese	Patent Application No. 201721056520.X or
PCT Patent Application No.	and was filed on <u>August 22, 20</u>	<u>)117;</u>
(2) in and to an Invention entitled "		" for which I/we previously filed
United States Provisional Application No(s).		

Page 1 of 3



in and to said PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or Chinese Patent Application, and in and to all other patent applications now or hereafter filed in any country throughout the world claiming priority therefrom, as well as any divisional, continuation, reexamination and reissue applications, and legal equivalents thereof, based upon said forgoing Invention, and in and to any patent or patents granted thereon or issued therefrom, including reissues or the like thereof, if any, to the full end of the term or terms for which said patent or patents may be granted or issued, (if necessary for recordation purposes with any national or foreign patent office throughout the world, said other patent application(s)s and/or patent(s) being specifically identified as follows)

Country	Application / Patent No.	Filing / Issue or Grant Date
Country	Application / Patent No.	Filing / Issue or Grant Date

; and

(4) in and to any and all priority rights, and any other application and patent rights in all of the above mentioned patent applications and patents.

I/we hereby authorize the Assignce and/or its agent or attorney to enter the Application No(s), and filing date(s) of the subject patent application(s) in the spaces provided above once received.

For the avoidance of any doubt, and without restricting the generality of this Assignment, it is confirmed by the Assignor(s) that the Assignee had the right to file the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or <u>Chinese</u> Patent Application, and shall have the right to file additional applications for protection of whatever form and in whichever countries it may choose to do so.

I/we agree that the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or <u>Chinese</u> Patent Application, and any patent applications of any countries which may be filed under any applicable international treaties and/or conventions based upon said Invention, shall be filed in the name of Assignee with the right to claim priority to the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or <u>Chinese</u> Patent Application based upon said Invention.

I/we further agree and authorize the Commissioner of Patents and Trademarks of the United States and all other appropriate government officials for applicable countries foreign to the United States to issue any and all above-identified patents to Assignee.

I/we hereby further agree that I/we shall, upon demand of Assignee, its successors or assigns, and without further consideration to me/us, execute any and all papers, make all rightful oaths and perform all acts that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to be a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers and oaths, and performance of all applicable acts, shall be paid by Assignee, its successors and assigns, and not by me/us.

Any and all rights Assignee takes under this Assignment are freely assignable or otherwise transferable by Assignee without any restriction whatsoever.

I/we hereby confirm my/our assignment absolutely to Assignee of any and all rights whatsoever that I/we may have in the subject matter hereof to the full extent that I/we would have had, had this assignment not been made.

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Page 2 of 3

1) Chuanbo WANG	20/7.11.15	2)	
Name: Chuanbo WANG	Date		Date
3)	***************************************	4)	
Name:	Date	Name:	Date
,	DECLARATIO)	N OF WITNESS	
I. <u>J. W. West.</u> hereby declare that I was personally person(s) named in this Assignment, of William (Signature of Witness)	present and did see the July sign and execute th	Idress is #5 Kibny Street New Dist above named inventor(s), personally known e same: 24/7./1-15 se of Signature)	to me to be the
For and on behalf of		COMPANY SEAL	
fTW Electronics (Suzhou) Co., Ltd.			
Name: 431 Title: 280	y Mouglev	S KIRTUK SOMOTORAN	
Date: 25×2.	W. L		
For and on behalf of		COMPANY SEAL	
ILLINOIS TOOL WORKS INC.			
Vame:			The state of the s
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Parkas			

Page 3 of 3

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