PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4888339

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL A. LEDFORD	03/26/2018
YU LIU	03/16/2018
KYLE A. WALTERS	03/21/2018
JUNHUA WU	03/26/2018
XUNCAI ZHANG	03/26/2018

RECEIVING PARTY DATA

Name:	WHIRLPOOL CORPORATION
Street Address:	2000 NORTH M-63
Internal Address:	MD 3601
City:	BENTON HARBOR
State/Country:	MICHIGAN
Postal Code:	49022

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	29641959

CORRESPONDENCE DATA

Fax Number: (616)957-8196

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: 6169499610

ptomail@priceheneveld.com Email:

PRICE HENEVELD LLP WHIRLPOOL CORPORATION **Correspondent Name:**

2000 NORTH M-63 Address Line 1:

Address Line 2: MD 3601

Address Line 4: BENTON HARBOR, UNITED STATES 49022

ATTORNEY DOCKET NUMBER:	SUB-10433-US-DP
NAME OF SUBMITTER:	BRIAN R. CHESLEK
SIGNATURE:	/brianrcheslek/
DATE SIGNED:	03/28/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

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Total Attachments: 5 source=1D56871#page1.tif source=1D56871#page2.tif source=1D56871#page3.tif source=1D56871#page4.tif source=1D56871#page5.tif

COMBINED ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET

	THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES	
Title of	MICROWAVE	
Invention		
	ed inventor, I hereby declare that: The attached application, or United States application or PCT international application number filed on	
The above-identific	ed application was made or authorized to be made by me.	
I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.	
I hereby state that acknowledge the d	I reviewed and understand the contents of the above-identified specification, including the claims. I luty to disclose information material to patentability of this application in accordance with 37 C.F.R §1.56.	
I hereby acknowled imprisonment of n	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or out than five (5) years, or both.	
WHEREAS, WHIRLPOOL CORPORATION (hereinafter referred to as "ASSIGNEE") having places of business at 2000 North M-63, Benton Harbor, Michigan 49022, U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention in the United States and throughout the world;		
NOW, THEREFORE, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the receipt and sufficiency of are hereby acknowledged, I (hereinafter referred to as "ASSIGNOR") hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part, reexamination and reissue of said application; and the entire right, title and interest in and to the said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.		
ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration but at no expense to ASSIGNOR, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the invention that are within ASSIGNOR'S possession or control and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.		
ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this agreement and sale not been made.		
ASSIGNOR authorizes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.		
LEGAL NAME OF	INVENTOR	
Inventor: Michael A.	Ledford Signature:	
Date: <u>20/8-</u> (03-26	

COMBINED ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET

		THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES
Title of	MICROWAVE	
Invention		
As the below named inventor, I hereby declare that: This declaration		
The above-identific	ied application was made or authorized to be made	e by me.
I believe that I am	the original inventor or an original joint inventor of	of a claimed invention in the application.
	I reviewed and understand the contents of the about to disclose information material to patentabili	ove-identified specification, including the claims. I ity of this application in accordance with 37 C.F.R §1.56.
	edge that any willful false statement made in this d not more than five (5) years, or both.	eclaration is punishable under 18 U.S.C. 1001 by fine or
WHEREAS, WHIRLPOOL CORPORATION (hereinafter referred to as "ASSIGNEE") having places of business at 2000 North M-63, Benton Harbor, Michigan 49022, U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention in the United States and throughout the world;		
NOW, THEREFORE, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the receipt and sufficiency of are hereby acknowledged, I (hereinafter referred to as "ASSIGNOR") hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part, reexamination and reissue of said application; and the entire right, title and interest in and to the said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.		
ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration but at no expense to ASSIGNOR, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the invention that are within ASSIGNOR'S possession or control and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.		
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ASSIGNOR authorizes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.		
LEGAL NAME OF	INVENTOR	10
Inventor: Yu Liu	Signature:	
Date:	3/16/2018	· ·

COMBINED ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET

APPLICATION USING AN APPLICATION DATA SHEET	
THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES	
Title of nvention	MICROWAVE
	ned inventor, I hereby declare that: The attached application, or United States application or PCT international application number filed on
'he above-identi	fied application was made or authorized to be made by me.
believe that I ar	n the original inventor or an original joint inventor of a claimed invention in the application.
	It I reviewed and understand the contents of the above-identified specification, including the claims. I duty to disclose information material to patentability of this application in accordance with 37 C.F.R §1.56.
	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or not more than five (5) years, or both.
4-63, Benton Ha	IRLPOOL CORPORATION (hereinafter referred to as "ASSIGNEE") having places of business at 2000 North arbor, Michigan 49022, U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention tes and throughout the world;
eceipt and sufficento said ASSIGN actuding any and reissue of sandcluding the rigid coorded ASSIGN reaties; and the	ORE, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the ciency of are hereby acknowledged, I (hereinafter referred to as "ASSIGNOR") hereby sell, assign and transfer NEE, the entire right, title and interest in and to said invention and application throughout the United States, d all United States Letters Patent granted on any division, continuation, continuation-in-part, reexamination id application; and the entire right, title and interest in and to the said invention throughout the world, ht to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights NOR under terms of the Paris International Convention and all other available international conventions and entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of addition patents and inventor certificates which may be granted throughout the world in respect of said
rosecution and nd in foreign co sSSIGNEE in an ut at no expense aformation conc estimony on bel lefense of any pr	OR hereby agrees to execute any documents that legally may be required in connection with the filing, maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States cuntries for said invention, including additional documents that may be required to affirm the rights of d to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration to ASSIGNOR, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and serning the invention that are within ASSIGNOR'S possession or control and to provide further assurances and half of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and atent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under hall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.
etters Patent rei \SSIGNEE'S sole nd of the term f	eby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States ferred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for a use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full or which such Letters Patent may be granted, as fully and entirely as the same would have been held by this agreement and sale not been made.
	horizes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information needed to effect its recordal in the U.S. Patent and Trademark Office.
EGAL NAME C	
iventor: Kyle A. V	
rate: 5.2	<u>1 · 18</u>

COMBINED ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET

	THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES		
Title of	MICROWAVE		
Invention			
As the below named inventor, I hereby declare that: This declaration			
The above-identifi	ed application was made or authorized to be made by me.		
	the original inventor or an original joint inventor of a claimed invention in the application.		
	I reviewed and understand the contents of the above-identified specification, including the claims. I luty to disclose information material to patentability of this application in accordance with 37 C.F.R §1.56.		
	rdge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or not more than five (5) years, or both.		
M-63, Benton Har	RLPOOL CORPORATION (hereinafter referred to as "ASSIGNEE") having places of business at 2000 North bor, Michigan 49022, U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention is and throughout the world;		
NOW, THEREFORE, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the receipt and sufficiency of are hereby acknowledged, I (hereinafter referred to as "ASSIGNOR") hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States, including any and all United States Leiters Patent granted on any division, continuation, continuation-in-part, reexamination and reissue of said application; and the entire right, title and interest in and to the said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.			
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ASSIGNOR authorizes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.			
LEGAL NAME OF INVENTOR			
Inventor: JunHua Wu Signature: Las Juo VI			
Date:			

COMBINED ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET

<u></u>	THIS OCCUMENT IS BEING SORMHTED FOR DUAL PURPOSES
Title of	MICROWAVE
Invention	
This declaration	od inventor, I hereby declare that. The attached application, or United States application or PCT international application number filed on
The above-identific	ed application was made or authorized to be made by me.
I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.
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	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or of more than five (5) years, or both.
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receipt and sufficie unto said ASSIGN including any and and reissue of said including the right accorded ASSIGNO treaties; and the en	IE, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the moty of are hereby acknowledged, I (hereinafter referred to as "ASSICNOR") hereby sell, assign and transfer EE, the entire right, title and interest in and to said invention and application throughout the United States, all United States Letters Patent granted on any division, continuation, continuation-in-part, reexamination application; and the entire right, title and interest in and to the said invention throughout the world, to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights OR under terms of the Paris International Convention and all other available international conventions and tire right, title and interest in and to any and all patents, patents of addition, utility models, patents of dation patents and inventor certificates which may be granted throughout the world in respect of said
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LEGAL NAME OF Inventor: XunCai Zha	INVENTOR ang Signature: Yun Cai Zhang
Date:	2018

RECORDED: 03/28/2018