505949480 03/04/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5996184

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KRATI BHARGAVA	02/26/2020
FANG DENG	03/03/2020
JAMES B. HULL	02/27/2020
WANG JUN	02/26/2020
DENNIS KEHL	02/26/2020
WEITAO YANG	02/26/2020

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:	16808869

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: 616-949-9610

Email: ptomail@priceheneveld.com

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

2000 NORTH M63 Address Line 1:

Address Line 4: BENTON HARBOR, MICHIGAN 49022

ATTORNEY DOCKET NUMBER:	SUB-12517-US-NP
NAME OF SUBMITTER:	MATTHEW J. STARK
SIGNATURE:	/Matthew J. Stark/
DATE SIGNED:	03/04/2020

PATENT REEL: 052022 FRAME: 0873

505949480

	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 6	
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COMBINED ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET

	THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES		
Title of Invention	DOUBLE-ROTOR WASHING TYPE DRUM WASHING MACHINE		
	ed inventor, I hereby declare that: The attached application, or United States application or PCT international application number filed on		
The above-identifie	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 I reviewed and understand the contents of the above-identified specification, including the claims. I acknowledge the duty to disclose information material to patentability of this application in accordance with 37 C.F.R §1.56.		
	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or ot more 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.			
prosecution and m and in foreign cour ASSIGNEE in and but at no expense t information concer testimony on behald defense of any pate	R hereby agrees to execute any documents that legally may be required in connection with the filing, aintenance of said application or any other patent application(s) or inventor certificate(s) in the United States intries for said invention, including additional documents that may be required to affirm the rights of 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 mining the invention that are within ASSIGNOR'S possession or control and to provide further assurances and of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and ent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under all 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.			
	orizes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information eeded to effect its recordal in the U.S. Patent and Trademark Office.		
LEGAL NAME OF	INVENTOR		
Inventor: Krati Bhar	gava Signature: Kohnfana		
Date: <u>26th-</u>	feb-2020		

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

	THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES
Title of I	DOUBLE-ROTOR WASHING TYPE DRUM WASHING MACHINE
Invention	
	inventor, I hereby declare that: The attached application, or United States application or PCT international application number filed on
The above-identified	application was made or authorized to be made by me.
I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.
2	reviewed and understand the contents of the above-identified specification, including the claims. I ty to disclose information material to patentability of this application in accordance with 37 C.F.R §1.56.
2	ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or more than five (5) years, or both.
M-63, Benton Harbo	POOL CORPORATION (hereinafter referred to as "ASSIGNEE") having places of business at 2000 North or, Michigan 49022, U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention and throughout the world;
receipt and sufficient unto said ASSIGNED including any and all and reissue of said as including the right to accorded ASSIGNOD treaties; and the entit	E, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the cy of are hereby acknowledged, I (hereinafter referred to as "ASSIGNOR") hereby sell, assign and transfer E, the entire right, title and interest in and to said invention and application throughout the United States, I United States Letters Patent granted on any division, continuation, continuation-in-part, reexamination pplication; and the entire right, title and interest in and to the said invention throughout the world, apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights R under terms of the Paris International Convention and all other available international conventions and re right, title and interest in and to any and all patents, patents of addition, utility models, patents of action patents and inventor certificates which may be granted throughout the world in respect of said
prosecution and mai and in foreign counts ASSIGNEE in and to but at no expense to information concerns testimony on behalf defense of any paten	hereby agrees to execute any documents that legally may be required in connection with the filing, intenance of said application or any other patent application(s) or inventor certificate(s) in the United States ries for said invention, including additional documents that may be required to affirm the rights of said invention, all without further consideration. ASSIGNOR also agrees, without further consideration ASSIGNOR, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and ing the invention that are within ASSIGNOR'S possession or control and to provide further assurances and of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and tapplication or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under 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.	
	zes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information eded to effect its recordal in the U.S. Patent and Trademark Office.
LEGAL NAME OF I	NVENTOR (7)
Inventor: Fang Deng	NVENTOR Signature:
Date: 3rd March	

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

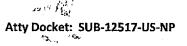
	☐ THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES	
Title of DOUBLE-ROTOR WASHING TY	PE DRUM WASHING MACHINE	
Invention		
As the below named inventor, I hereby declare that: This declaration The attached application, or is directed to: United States application or PCT interripted on	national application number	
The above-identified application was made or authorized to	be made by me.	
I believe that I am the original inventor or an original joint in	ventor of a claimed invention in the application.	
I hereby state that I reviewed and understand the contents of acknowledge the duty to disclose information material to pat	the above-identified specification, including the claims. I entability of this application in accordance with 37 C.F.R §1.56.	
I hereby acknowledge that any willful false statement made i imprisonment of not more than five (5) years, or both.	n this declaration is punishable under 18 U.S.C. 1001 by fine or	
	ferred to as "ASSIGNEE") having places of business at 2000 North acquiring the entire right, title and interest in and to said invention	
receipt and sufficiency of are hereby acknowledged, I (herein unto said ASSIGNEE, the entire right, title and interest in and including any and all United States Letters Patent granted on and reissue of said application; and the entire right, title and including the right to apply for patents and inventor certifical	tes in respect thereof and to claim priority pursuant to rights Convention and all other available international conventions and all patents, patents of addition, utility models, patents of	
and in foreign countries for said invention, including addition ASSIGNEE in and to said invention, all without further consibut at no expense to ASSIGNOR, to identify and communicatinformation concerning the invention that are within ASSIGN testimony on behalf of ASSIGNEE that lawfully may be requi	patent application(s) or inventor certificate(s) in the United States hal documents that may be required to affirm the rights of deration. ASSIGNOR also agrees, without further consideration to to ASSIGNEE at ASSIGNEE'S request documents and IOR'S possession or control and to provide further assurances and red of ASSIGNOR in respect of the prosecution, maintenance and hin the terms of this instrument. ASSIGNOR'S obligations under	
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ASSIGNOR authorizes any member or representative of WE in this document needed to effect its recordal in the U.S. Pater	IIRLPOOL CORPORATION to insert or complete any information and Trademark Office.	
LEGAL NAME OF INVENTOR		
Inventor: James B. Hull Signature:	James B Head	
27FEB2020	· · · · · · · · · · · · · · · · · · ·	
Date		

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

	THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES	
Title of	DOUBLE-ROTOR WASHING TYPE DRUM WASHING MACHINE	
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.	
	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.	
	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or out that 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;	
receipt and sufficients and ASSIGN including any and and reissue of said including the right accorded ASSIGNO treaties; and the entire in the sufficient and the entire in the sufficient accorded ASSIGNO treaties; and the entire in the sufficient accorded as a sufficient	RE, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the ency of are hereby acknowledged, I (hereinafter referred to as "ASSIGNOR") 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 after right, title and interest in and to any and all patents, patents of addition, utility models, patents of idation patents and inventor certificates which may be granted throughout the world in respect of said	
prosecution and m and in foreign cour ASSIGNEE in and but at no expense t information concer testimony on behal defense of any pate	R hereby agrees to execute any documents that legally may be required in connection with the filing, aintenance of said application or any other patent application(s) or inventor certificate(s) in the United States intries for said invention, including additional documents that may be required to affirm the rights of to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration of ASSIGNOR, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and raining the invention that are within ASSIGNOR'S possession or control and to provide further assurances and left of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and ent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under all extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.	
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ASSIGNOR authorin this document no	rizes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information eeded to effect its recordal in the U.S. Patent and Trademark Office.	
LEGAL NAME OF	INVENTOR	
Inventor: Wang Jun	Signature: Wond Jan	
Date: 7.07.47.	,	
Date: 7.07.7	L. LD	

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

~~~	THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES		
Title of	DOUBLE-ROTOR WASHING TYPE DRUM WASHING MACHINE		
Invention			
As the below name This declaration [2] is directed to:	ed inventor, I hereby declare that:  The attached application, or  United States application or PCT international application number filed on		
The above-identifie	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 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.		
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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	RE, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the ency of are hereby acknowledged, I (hereinafter referred to as "ASSIGNOR") 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 native right, title and interest in and to any and all patents, patents of addition, utility models, patents of idation patents and inventor certificates which may be granted throughout the world in respect of said		
prosecution and mand in foreign cour ASSIGNEE in and but at no expense I information concer testimony on beha defense of any pat- this instrument sha	R hereby agrees to execute any documents that legally may be required in connection with the filing, naintenance of said application or any other patent application(s) or inventor certificate(s) in the United States intries for said invention, including additional documents that may be required to affirm the rights of 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 rining the invention that are within ASSIGNOR'S possession or control and to provide further assurances and of the invention of the prosecution, maintenance and ent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under all extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.		
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ASSIGNOR author in this document r	orizes 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.		
LEGAL NAME OI	FINVENTOR A 11 // 7		
Inventor: <u>Dennis Ke</u>			
Date: 76	FEBRUME 2020		



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

	THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES
Title of	DOUBLE-ROTOR WASHING TYPE DRUM WASHING MACHINE
Invention	
	d inventor, I hereby declare that:  The attached application, or  United States application or PCT international application number  filed on
The above-identifie	d application was made or authorized to be made by me.
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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	
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	rizes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information reded to effect its recordal in the U.S. Patent and Trademark Office.
LEGAL NAME OF	
Inventor: Weitao Yan	
Date: 2020 . 9	2.26

PATENT REEL: 052022 FRAME: 0880

RECORDED: 03/04/2020