#### 503974048 08/24/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4020704

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

#### **CONVEYING PARTY DATA**

| Name                   | Execution Date |
|------------------------|----------------|
| JOHN W. MCCONNELL      | 08/23/2016     |
| JOEL GRAHAM VAN FAASEN | 08/23/2016     |
| ZHAOYI YIN             | 08/22/2016     |

### **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 29575309 |

### CORRESPONDENCE DATA

Fax Number: (269)923-5778

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: 2699235000

Email: mike lafrenz@whirlpool.com, ptomail@priceheneveld.com

WHIRLPOOL CORPORATION - MD 3601 / PRICE **Correspondent Name:** 

Address Line 1: 2000 NORTH M63

Address Line 4: BENTON HARBOR, MICHIGAN 49022

| ATTORNEY DOCKET NUMBER: | SUB-08814-US-DP  |
|-------------------------|--|
| NAME OF SUBMITTER:      | BRIAN R. CHESLEK   |
| SIGNATURE:              | /brianrcheslek/  |
| DATE SIGNED:            | 08/24/2016   |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |

#### **Total Attachments: 3**

source=2016-08-24 SUB-08814-US-DP WHI021 P425 Combined Assignments and Declarations#page1.tif source=2016-08-24 SUB-08814-US-DP WHI021 P425 Combined Assignments and Declarations#page2.tif source=2016-08-24 SUB-08814-US-DP\_WHI021\_P425\_Combined\_Assignments\_and\_Declarations#page3.tif

Atty Docket: SUB-08814-US-DP

### 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   | BREWER  |  |
|  | ned inventor, I hereby declare that:  The attached application, or United States application or PCT international filed on  | application number   |
| The above-identifi   | ied application was made or authorized to be mad-   | by me.   |
| I believe that I am  | n the original inventor or an original joint inventor   | of a claimed invention in the application.   |
| I hereby state that acknowledge the  | t I reviewed and understand the contents of the abo<br>duty to disclose information material to patentabil  | ove-identified specification, including the claims. I<br>ty of this application in accordance with 37 C.F.R §1.56.   |
|  | ledge that any willful false statement made in this o<br>not more than five (5) years, or both.   | eclaration is punishable under 18 U.S.C. 1001 by fine or   |
| M-63, Benton Ha  | IRLPOOL CORPORATION (hereinafter referred turbor, Michigan 49022, U.S.A. is desirous of acquirites and throughout the world;  | o as "ASSIGNEE") having places of business at 2000 Northing the entire right, title and interest in and to said invention  |
| receipt and suffici<br>unto said ASSIGN<br>including any and<br>and reissue of said<br>including the right<br>accorded ASSIGN<br>treaties; and the e<br>importation, reva-<br>invention. | riency of are hereby acknowledged, I (hereinafter re<br>NEE, the entire right, title and interest in and to said<br>d all United States Letters Patent granted on any di<br>id application; and the entire right, title and interes<br>ht to apply for patents and inventor certificates in r<br>NOR under terms of the Paris International Conven-<br>entire right, title and interest in and to any and all p<br>alidation patents and inventor certificates which ma | espect thereof and to claim priority pursuant to rights tion and all other available international conventions and atents, patents of addition, utility models, patents of y be granted throughout the world in respect of said  |
| prosecution and and in foreign con<br>ASSIGNEE in and<br>but at no expense<br>information conc<br>testimony on behadefense of any pathis instrument s                                    | countries for said invention, including additional doc<br>id to said invention, all without further consideration<br>in the to ASSIGNOR, to identify and communicate to ASSIGNOR'S<br>cerning the invention that are within ASSIGNOR'S<br>half of ASSIGNEE that lawfully may be required of<br>atent application or patent encompassed within the<br>shall extend to ASSIGNOR'S heirs, executors, admir-<br>reby authorizes and requests the Commissioner of I          | uments that may be required to affirm the rights of  n. ASSIGNOR also agrees, without further consideration SIGNEE at ASSIGNEE'S request documents and possession or control and to provide further assurances and ASSIGNOR in respect of the prosecution, maintenance and terms of this instrument. ASSIGNOR'S obligations under histrators and other legal representatives.  atents and Trademarks to issue any and all United States the entire right, title and interest in and to the same, for |
| ASSIGNEE'S sole<br>end of the term f   | le use and behoof; and for the use and behoof of AS. for which such Letters Patent may be granted, as fulthis agreement and sale not been made.   | ly and entirely as the same would have been held by  |
| ASSIGNOR author in this document   | thorizes any member or representative of WHIRLPO<br>t needed to effect its recordal in the U.S. Patent and  | OOL CORPORATION to insert or complete any information Trademark Office   |
| LEGAL NAME Of Inventor: John Date:   |   | nature:  |

Atty Docket: SUB-08814-US-DP

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

| Title of Invention  As the below named inventor, I hereby declare that: This declaration is directed to:  The attached application or PCT international application number ified on fled on fl |  | THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES   |
|--|--|--|
| This declaration   Interest of the content of the c |  |  |
| 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.  I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not 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-nepart, reexamination and reisure 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 nall other available international conventions and treaties; and the entire right title and interest in and to all other available international conventions and treaties; and the entire right with a minute of the paris International Convention and all other available internation | This declaration   | ☐ The attached application, or ☐ United States application or PCT international application number   |
| 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. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not 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.  ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required to commerciate (said invention, all without further consideration) and to the said invention and invention  | The above-identifi   | ed application was made or authorized to be made by me.  |
| acknowledge the duty to disclose information material to patentability of this application in accordance with 37 C.F.R §1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not 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.  ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required to affirm the rights of ASSIGNOR hereby agrees to execute any documents that legally may be required to inconnection with the filing, prosecution and maintenance of said application or any other patent applications) or inventor c | I believe that I am  | the original inventor or an original joint inventor of a claimed invention in the application.   |
| 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 t |  |  |
| 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 ASSIGNOR also agrees, without further consideration but at no expense to ASSIGNOR, to identify and communicate to ASSIGNOR in respect of the prosecution, maintenance and defense of |  |  |
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|  | Letters Patent refe<br>ASSIGNEE'S sole a<br>end of the term for  | rred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full which such Letters Patent may be granted, as fully and entirely as the same would have been held by  |
|  |  |  |
| I ECAL NAME OF INIVENITOR  | IECAL NIAME OF   | EINIVENITOR  |
| LEGAL NAME OF INVENTOR   |  | (1,1/2)  |
| Inventor: Joel Graham Van Faasen Signature:  Date: 8/23/16   |  | 7619-7   |

Atty Docket: SUB-08814-US-DP

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

| this a   | THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES   |
|--|--|
| Title of<br>Invention  | BREWER   |
| As the below name  | rd 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  | reviewed and understand the contents of the above-identified specification, including the claims. I uty to disclose information material to patentability of this application in accordance with 37 C.F.R §1.56.   |
| I hereby acknowled   | 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.  |
| M-63, Benton Harl  | LEPOOL CORPORATION (hereinafter referred to as "ASSIGNEE") having places of business at 2000 North Por, Michigan 49022, U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention and throughout the world;  |
| unto said ASSIGNI<br>including any and<br>and reissue of said<br>including the right<br>accorded ASSIGNO<br>treaties; and the en   | RE, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the ncy 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 DR 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 |
| prosecution and mand in foreign cour ASSIGNEE in and at no expense to ASCONCERNING the investment of ASSIGNE patent application of | 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 stries 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 but SSIGNOR, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information ention that are within ASSIGNOR'S possession or control and to provide further assurances and testimony on E that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument IGNOR'S heirs, executors, administrators and other legal representatives.  |
| Letters Patent refer:<br>ASSIGNEE'S sole u   | y authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States red to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for se and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full which such Letters Patent may be granted, as fully and entirely as the same would have been held by a granted and sale not been made.  |
| ASSIGNOR author<br>in this document ne   | izes 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<br>Inventor: Zhaoyi Yi<br>Date: 08/2   | n Signature: Viu   |