504699600 12/21/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4746322

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| XUEHUI NANCY LIU | 11/13/2017 |
| DANIEL POLONSKY | 11/15/2017 |
| ANNA C. SCHELLING | 12/12/2017 |
| WEI ZHENG | 11/15/2017 |

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: | 29630480 |

CORRESPONDENCE DATA

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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.

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| ATTORNEY DOCKET NUMBER: | SUB-11015-US-DP |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | JOHN F. COLLIGAN |
| SIGNATURE: | /John F. Colligan/ |
| DATE SIGNED: | 12/21/2017 |
| | · |

Total Attachments: 4

PATENT REEL: 044461 FRAME: 0303

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Atty Docket: SUB-11015-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 | USER INTERFACE |
| | ed inventor, I hereby declare that: The attached application, or United States application or PCT international application number filed on |
| The above-identifi | 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. |
| | dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or note 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 suffici- unto said ASSIGN including any and and reissue of saic including the righ accorded ASSIGN 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 is application; 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 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 |
| 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. | |
| Letters Patent refe ASSIGNEE'S sole end of the term fo | by authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States or the 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 rewhich such Letters Patent may be granted, as fully and entirely as the same would have been held by his agreement and sale not been made. |
| | 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 O | FINVENTOR |
| 1 | lancy Liu Signature: |
| Date://_ | <u> </u> |

Atty Docket: SUB-11015-US-DP

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

| Title of | THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES USER INTERFACE |
|--|---|
| Invention | USEN EXTENDED |
| As the below name | ed inventor, I hereby declare that: The attached application, or United States application or PCT international application number filed on |
| The above-identifi | 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. |
| 3 | 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. |
| | edge 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; |
| receipt and suffici- unto said ASSIGN including any and and reissue of said including the righ accorded ASSIGN treaties; and the er | 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 IEE, 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 I 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 notice 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 coursely and in foreign coursely at no expense information concestestimony on behadefense of any patthis instrument sh | OR 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 entries 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 rning the invention that are within ASSIGNOR'S possession or control and to provide further assurances and all of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and tent 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. |
| Letters Patent refe ASSIGNEE'S sole end of the term fo | by authorizes and requests the Commissioner of rateins and Trademarks to issue any and all Onlied States erred 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 rewhich such Letters Patent may be granted, as fully and entirely as the same would have been held by his agreement and sale not been made. |
| | 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 O | FINVENTOR |
| Inventor: Daniel P | |
| Date: \ /15/ | |

Atty Docket: SUB-11015-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 | USER INTERFACE | |
| | ed inventor, I hereby declare that: The attached application, or United States application or PCT international application number filed on | |
| The above-identifi | 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. | |
| | edge 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. | |
| 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; | | |
| receipt and suffici unto said ASSIGN including any and and reissue of said including the righ accorded ASSIGN treaties; and the e | 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 I application; and the entire right, title and interest in and to the said invention throughout the world, it 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 other 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 | |
| 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: Anna C. | Schelling Signature: Sture Schell | |
| Date: 12/12-[| 2017 | |

Atty Docket: 5UB-11015-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 | USER INTERFACE |
| Invention | |
| As the below nam This declaration 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-identif | ied 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 tha | t 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. |
| I hereby acknowl imprisonment of | edge 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 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; |
| receipt and suffice unto said ASSIG including any and and reissue of said including the riguaccorded ASSIG treaties; 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, id 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 alidation patents and inventor certificates which may be granted throughout the world in respect of said |
| prosecution and and in foreign of ASSIGNEE in ar but at no expensinformation contestimony on be defense of any pathis instrument: | 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 ountries for said invention, including additional documents that may be required to affirm the rights of and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration se to ASSIGNOR, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and cerning the invention that are within ASSIGNOR'S possession or control and to provide further assurances and shalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and satent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives. |
| Letters Patent re ASSIGNEE'S sol end of the term ASSIGNOR had | reby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States iferred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for e use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full for 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. |
| ASSIGNOR aud in this documen | horizes any member or representative of WHIRLPOOL CORPORATION to insert or complete any information to needed to effect its recordal in the U.S. Patent and Trademark Office. |
| LEGAL NAME | OF INVENTOR |
| Inventor: Wei Zh | nengSignature: |
| Date: | |

RECORDED: 12/21/2017