504152527 12/22/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4199200

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| DANIEL CHOW | 12/20/2016 |
| DANIEL V. CLEMENTS | 12/21/2016 |
| CHRISTOPHER A. GREGORY | 12/19/2016 |
| PATRICK J. SCHIAVONE | 12/20/2016 |
| MARK W. SCHULZ | 12/21/2016 |

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: | 29588793 |

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: 2699237441

Email: mike_lafrenz@whirlpool.com, ptomail@priceheneveld.com

Correspondent Name: WHIRLPOOL CORPORATION - MD 3601 / PRICE

2000 NORTH M63 Address Line 1:

Address Line 4: BENTON HARBOR, MICHIGAN 49022

| ATTORNEY DOCKET NUMBER: | SUB-09867-US-DP |
|-------------------------|--|
| NAME OF SUBMITTER: | BRIAN R. CHESLEK |
| SIGNATURE: | /brianrcheslek/ |
| DATE SIGNED: | 12/22/2016 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| | • |

Total Attachments: 5

PATENT REEL: 040756 FRAME: 0622

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source=2016-12-22_SUB-09867-US-DP_WHI008_P647_Combined_Assignments_and_Declarations#page1.tif source=2016-12-22_SUB-09867-US-DP_WHI008_P647_Combined_Assignments_and_Declarations#page2.tif source=2016-12-22_SUB-09867-US-DP_WHI008_P647_Combined_Assignments_and_Declarations#page3.tif source=2016-12-22_SUB-09867-US-DP_WHI008_P647_Combined_Assignments_and_Declarations#page4.tif source=2016-12-22_SUB-09867-US-DP_WHI008_P647_Combined_Assignments_and_Declarations#page5.tif

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

| | | THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES |
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| Title of Invention | HANDLE | |
| | ned inventor, I hereby declare that: The attached application, or United States application or PCT international filed on | application number |
| The above-identif | fied application was made or authorized to be made | e by me. |
| I believe that I am | n the original inventor or an original joint inventor o | of a claimed invention in the application. |
| | t I reviewed and understand the contents of the abo duty to disclose information material to patentabili | ove-identified specification, including the claims. I ty of this application in accordance with 37 C.F.R §1.56. |
| | ledge 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 |
| M-63, Benton Har | · · · · · · · · · · · · · · · · · · · | o as "ASSIGNEE") having places of business at 2000 North ng the entire right, title and interest in and to said invention |
| receipt and suffici unto said ASSIGN including any and and reissue of said including the righ accorded ASSIGN treaties; and the en | iency of are hereby acknowledged, I (hereinafter re NEE, the entire right, title and interest in and to said d all United States Letters Patent granted on any div d application; and the entire right, title and interest ht to apply for patents and inventor certificates in re NOR under terms of the Paris International Conven- entire right, title and interest in and to any and all p | agreement, and/or for good and valuable consideration, the ferred to as "ASSIGNOR") hereby sell, assign and transfer I invention and application throughout the United States, vision, continuation, continuation-in-part, reexamination in and to the said invention throughout the world, 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 mand in foreign coursels. ASSIGNEE in and but at no expense information concertestimony on behaviorse of any particular and the second secon | untries for said invention, including additional doc d to said invention, all without further consideration to ASSIGNOR, to identify and communicate to AS erning the invention that are within ASSIGNOR'S plant of ASSIGNEE that lawfully may be required of A | application(s) or inventor certificate(s) in the United States uments that may be required to affirm the rights of in. ASSIGNOR also agrees, without further consideration (SIGNEE at ASSIGNEE'S request documents and cossession or control and to provide further assurances and ASSIGNOR in respect of the prosecution, maintenance and terms of this instrument. ASSIGNOR'S obligations under |
| Letters Patent refe ASSIGNEE'S sole end of the term fo | erred to above to ASSIGNEE, as the ASSIGNEE of t use and behoof; and for the use and behoof of ASS | atents and Trademarks to issue any and all United States the entire right, title and interest in and to the same, for IGNEE'S legal representatives and successors, to the full by and entirely as the same would have been held by |
| | norizes any member or representative of WHIRLPC needed to effect its recordal in the U.S. Patent and T | OOL CORPORATION to insert or complete any information Frademark Office. |
| TECAT MANAGE | NE INTO JENUTAD | |
| LEGAL NAME O | | 1/10/1/1// |
| Inventor: <u>Daniel</u> | | V M V |
| Date:12/20/2 | <u>′2016 </u> | Early Company of the |

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

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| Title of | TT LATER TO | THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSE |
| Invention | HANDLE | |
| | ed inventor, I hereby declare t The attached application, o United States application o filed on | or PCT international application number |
| The above-identifi | ed application was made or a | athorized to be made by me. |
| I believe that I am | the original inventor or an ori | ginal joint inventor of a claimed invention in the application. |
| | | e contents of the above-identified specification, including the claims. I aterial to patentability of this application in accordance with 37 C.F.R §1.56. |
| | dge that any willful false state tot more than five (5) years, or | ment made in this declaration is punishable under 18 U.S.C. 1001 by fine or both. |
| M-63, Benton Har | | tereinafter referred to as "ASSIGNEE") having places of business at 2000 North s desirous of acquiring the entire right, title and interest in and to said invention |
| receipt and sufficie unto said ASSIGN including any and and reissue of said including the right accorded ASSIGN treaties; and the er | ency of are hereby acknowled; EE, the entire right, title and it all United States Letters Pater Lapplication; and the entire rig t to apply for patents and inve OR under terms of the Paris In tire right, title and interest in | ions by law and/or agreement, and/or for good and valuable consideration, the ged, I (hereinafter referred to as "ASSIGNOR") hereby sell, assign and transfer nterest in and to said invention and application throughout the United States, of granted on any division, continuation, continuation-in-part, reexamination with, title and interest in and to the said invention throughout the world, into certificates in respect thereof and to claim priority pursuant to rights atternational Convention and all other available international conventions and and to any and all patents, patents of addition, utility models, patents of ertificates which may be granted throughout the world in respect of said |
| prosecution and m and in foreign cou ASSIGNEE in and but at no expense information conce testimony on beha defense of any pat | naintenance of said application intries for said invention, inclu- to said invention, all without to ASSIGNOR, to identify and rning the invention that are walf of ASSIGNEE that lawfully ent application or patent enco | y documents that legally may be required in connection with the filing, or any other patent application(s) or inventor certificate(s) in the United States ding additional documents that may be required to affirm the rights of further consideration. ASSIGNOR also agrees, without further consideration communicate to ASSIGNEE at ASSIGNEE'S request documents and ithin ASSIGNOR'S possession or control and to provide further assurances and may be required of ASSIGNOR in respect of the prosecution, maintenance and mpassed within the terms of this instrument. ASSIGNOR'S obligations under rs, executors, administrators and other legal representatives. |
| Letters Patent refe ASSIGNEE'S sole end of the term for | rred to above to ASSIGNEE, a use and behoof; and for the us | Commissioner of Patents and Trademarks to issue any and all United States is the ASSIGNEE of the entire right, title and interest in and to the same, for e and behoof of ASSIGNEE'S legal representatives and successors, to the full by be granted, as fully and entirely as the same would have been held by n made. |
| | | ntative of WHIRLPOOL CORPORATION to insert or complete any information the U.S. Patent and Trademark Office. |
| | | |
| LEGAL NAME OF | FINVENTOR | |
| Inventor: <u>Daniel V</u> | '. Clements | Signature: |
| Date: 12/2 | <u> 1/16 </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 Invention | HANDLE |
| 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 |
| 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 duty 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 as and throughout the world; |
| receipt and sufficient unto said ASSIGN including any and and reissue of said including the right accorded ASSIGN treaties; and the endorse | 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 antire 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 cou ASSIGNEE in and but at no expense information conce testimony on behadefense of any pat | 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 ntries 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 lf 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. |
| Letters Patent refe ASSIGNEE'S sole end of the term for | by authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States 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 r which 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:Christor | oher A. Gregory Signature: |
| Date: | 9 |

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

| | THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES |
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| Title of Invention | HANDLE |
| | 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 duty 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 as 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 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 if 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 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 r and in foreign cou ASSIGNEE in and but at no expense information conce testimony on behi defense of any pa | 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 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 erning the invention that are within ASSIGNOR'S possession or control and to provide further assurances and alf 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 tall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives. |
| Letters Patent refo 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 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 or which 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. |
| ASSIGNOR auth in this document | 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 Trademary Office. |
| LEGAL NAME C | IE INIVENITOR |
| Inventor: Patrick | VI A |
| , | -20-16 |
| Date:/_ | Control of the contro |

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

| | | THIS DO | CUMENT IS BEIN | NG SUBMITTED FOR DUAL PURPOS | SES |
|--|--|---------------------|------------------|--|-----|
| Title of Invention | HANDLE | | | | |
| 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. | | | |
| I believe that I am | the original inventor or an original joint ir | iventor of a clair | ned invention in | the application. | |
| | I reviewed and understand the contents o luty to disclose information material to pa | | | | |
| | dge that any willful false statement made ot more than five (5) years, or both. | in this declaration | on 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; | | | | | |
| receipt and sufficie unto said ASSIGN including any and and reissue of said including the right accorded ASSIGNO treaties; and the en | 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 | | | | r |
| 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. | | | | d d | |
| 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: Mark W | | | <u> </u> | <u>r </u> | |
| Date: <u>/2/2/</u> | | ્ક પ | | | |

RECORDED: 12/22/2016