505198594 11/20/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5245363

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOSHUA GEORGE ABDOO	11/13/2018
MATTHEW P. EBROM	11/12/2018
NEOMAR GIACOMINI	11/14/2018
DONALD JOHN GILMORE	11/13/2018
BRIAN N. RADFORD	11/14/2018
AARON EDWARD SHOWERS	11/13/2018
COLLIN ANDREW STIPE	11/13/2018

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:	16195955

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

Correspondent Name: PRICE HENEVELD LLP WHIRLPOOL CORPORATION

Address Line 1: 2000 NORTH M63

Address Line 4: BENTON HARBOR, MICHIGAN 49022

ATTORNEY DOCKET NUMBER:	SUB-09428-US-CIP
NAME OF SUBMITTER:	DANIEL R. HOOVLER
SIGNATURE:	/Daniel R. Hoovler/
DATE SIGNED:	11/20/2018

PATENT 505198594 REEL: 047550 FRAME: 0282

	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 7	
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THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES

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

Title of	INTERACTION RECOGNITION AND ANALYSIS SYSTEM	
Invention		
This declaration	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 ot 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 s 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 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 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	
prosecution and m and in foreign cour ASSIGNEE in and but at no expense t information concer testimony on beha 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 at tries 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 ming 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 entrapplication 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.		
	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		
Date: 1/13/		

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Ti s tle of	INTERACTION RECOGNITION AND ANALYSIS SYSTEM	
In≪ention		
This declaration [ad 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 beelieve that I am I	he original inventor or an original joint inventor of a claimed invention in the application.	
I heareby state that I ack nowledge the d	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 imprisonment of na	Ige 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.	
M-63, Benton Harb	LPOOL 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 sufficie unto said ASSIGNI including any and and reissue of said including the right accorded ASSIGNO treaties; and the ent	E, in accord with my obligations by law and/or agreement, and/or for good and valuable consideration, the next 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, 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 of under terms of the Paris International Convention and all other available international conventions and ire right, title and interest in and to any and all patents, patents of addition, utility models, patents of lation 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 Letters Patent referr ASSIGNEE'S sole us end of the term for t	authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States ed to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for the 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 agreement and sale not been made.	
ASSIGNOR author 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 I	NVENTOR 2// / /	
Inventor: Matthew P.		
Date: 11/12	<u> </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	INTERACTION RECOGNITION AND ANALYSIS SYSTEM
As the below name	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.
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.
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	ge 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.
M-63, Benton Harb	LPOOL 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 ASSIGNE including any and and reissue of said including the right accorded ASSIGNO treaties; and the entitle	E, 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 E, 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 of under terms of the Paris International Convention and all other available international conventions and irre 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 ma and in foreign cour ASSIGNEE in and to but at no expense to information concer- testimony on behald defense of any pate	A hereby agrees to execute any documents that legally may be required in connection with the filing, antenance 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 said invention, all without further consideration. ASSIGNOR also agrees, without further consideration assigned, as a said invention, all without further consideration as ASSIGNOR, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and ning the invention that are within ASSIGNOR'S possession or control and to provide further assurances and for assignee that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under lextend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.
Letters Patent refer ASSIGNEE'S sole u end of the term for	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.
	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: Neomar Gi	1011 and 1011

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

THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES		
Title of INTERACTION RECOGNITION AND ANALYSIS SYSTEM		
Invention		
As the below named inventor, I hereby declare that: This declaration The attached application, or is directed to: United States application or PCT international 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 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-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.		
A PROCESS OF A COLUMN SAFE PROCESSOR		
LEGAL NAME OF INVENTOR		
Inventor: Donald John Gilmore Signature		
Date: 11/13/2017		

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

	THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES
Title of	INTERACTION RECOGNITION AND ANALYSIS SYSTEM
Invention	
As the below name 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
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prosecution and ma and in foreign cour ASSIGNEE in and to but at no expense to 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 at the following 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 ning the invention that are within ASSIGNOR'S possession or control and to provide further assurances and for ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and not application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under II extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.
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LEGAL NAME OF	INVENTOR / /
Inventor: <u>Brian N. Ra</u>	
Date: Mule	r 14, 2018

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

Internation The attached application, I hereby declare that: This declaration The attached application or PCT international application number filed on The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. Thereby 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. Thereby 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 (thereinafter referred to as "ASSIGNEE") having places of business at 2000 North M-63, Beaton 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 thereinafter referred to as "ASSIGNOE") hereby sell, assign and transfer unto said ASSIGNEE; the nature right, title and interest 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 ressue of said application and the entire right, title and interest in and to the said invention in 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 Internation		THIS DOCUMENT IS BEING SUBMITTED FOR DUAL PURPOSES
As the below named inventor, I hereby declare that: This declaration The attached application or PCT international application number	Title of	INTERACTION RECOGNITION AND ANALYSIS SYSTEM
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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 ASSIGNOR 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 as a garges, without further consideration but at no expense		
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1 PL-AL NAME OF INVENTOR	LECAL NAME OF	FINVENTOR
LEGAL NAME OF INVENTOR Inventor: Aaron Edward Showers Signature: Signature:		66/16).
Date:Nov 13, 2018		

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

RECORDED: 11/20/2018