#### 505357418 03/05/2019

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5404206

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHRISTOPH LUCKHARDT	12/23/2016
FABIENNE REINHARD-HERRSCHER	09/01/2015
KERSTEN KAISER	09/01/2015
CHRISTOPH WALTHER	08/28/2015
DANIEL ARLER	02/06/2017
SANDRO COMUZZI	02/21/2017

#### **RECEIVING PARTY DATA**

Name:	ELECTROLUX APPLIANCES AKTIEBOLAG
Street Address:	S:T GORANSGATAN 143
City:	STOCKHOLM
State/Country:	SWEDEN
Postal Code:	S-105 45

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

Property Type	Number
Application Number:	15328551

#### **CORRESPONDENCE DATA**

**Fax Number:** (216)579-6073

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.

**Email:** kwebb@pearne.com

**Correspondent Name:** PEARNE AND GORDON LLP **Address Line 1:** 1801 EAST 9TH STREET

Address Line 2: SUITE 1200

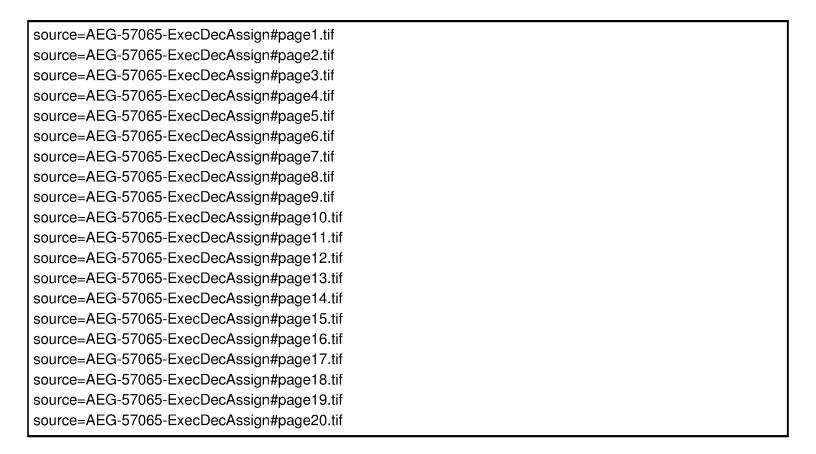
Address Line 4: CLEVELAND, OHIO 44114

NAME OF SUBMITTER: STEVEN J. SOLOMON  SIGNATURE: /stevenjsolomon/	
SIGNATURE: /ctovonicolomon/	
/stevenjsolonion/	
<b>DATE SIGNED:</b> 03/05/2019	

**Total Attachments: 20** 

PATENT REEL: 048500 FRAME: 0147

505357418



PATENT REEL: 048500 FRAME: 0148

Attor	ney Docket No.:			
As a	below-named inv	ventor, I hereby declare	e that:	
this d	eclaration is direc	ted to the application en	titled:	
			TH A DOMESTIC APPLIA	ANCE BY A
		DEVICE, MOBILE C	COMPUTER DEVICE AND D	OMESTIC
APPL	IANCE			
		(TIT)	LE)	
(check	only one item be	elow)		
[X]	attached hereto,			
OR				
	filed on (YYYY	/MM/DD)	as United States Applica	ntion Number or
	PCT	International	Application	Number
	PCT/EP2	2015/		
			nthorized to be made by me.	
	ve I am the origined identified applications.		al joint inventor of a claimed	invention in the
			ement made in this declaration f not more than five (5) years,	
describ		v and useful improvemendentified application.	nts have been made by the und	lersigned as
having	WHEREAS, <u>E</u>	ectrolux Appliances Ak	tiebolag	,
hereina	fter referred to a nout the world in	as "assignee", is desiro	143, 105 45 Stockholm, Sus of acquiring all right, tit.	le, and interest
sufficie	ency of which ar	e hereby acknowledged	for valuable consideration, , all right, title, and interest,	in the United

Page 1 of 4

patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

IN WITNESS WHEREOF, this declaration and assignment has been executed below by the undersigned:

Legal Name of Inventor: Christoph LUCKHARDT

Signature of Inventor:

Date: 23.17. 2016

Witness: Padalle Vara

Witness:

[] Signatures of additional inventors on attached sheet(s)

Notice to Inventor(s): A person may not execute this declaration unless that person has reviewed and understands the contents of the above-identified application, including the claims.

Legal Name of Inventor: <u>Fabienne REINHARD-HERRSCHER</u>
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: <u>Kersten KAISER</u>
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: <u>Christoph WALTHER</u>
Signature of Inventor:
Date:
Witness:
Witness:

Legal Name of Inventor: <u>Daniel ARLER</u>
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: Sandro COMUZZI
Signature of Inventor:
Date:
Witness:
Witness

Attorn	ey Docket No.: _	-		
As a b	elow-named inv	ventor, I hereby declare th	nat:	
thic de	elaration is direc	eted to the application entitl	ed:	
метн	OD FOR DATA	COMMUNICATION WIT	H A DOMESTIC APPLIA	NCE BY A
MOBI	LE COMPUTER	DEVICE, MOBILE CO	MPUTER DEVICE AND D	OMESTIC
APPL	TANCE			
	WAY TO THE TOTAL PROPERTY OF THE TOTAL PROPE	(TITL)	E)	
(check	only one item b	elow)		
[X]	attached hereto	>		
OR				
	filed on (YYY	Y/MM/DD)	as United States Applic	ation Number or
	PCT	International	Application	Number
	PCT/EF	22015/	,	
m	- ava identified a	pplication was made or aut	horized to be made by me.	
I belie above	eve I am the orig -identified applic	inal inventor or an original cation.	joint inventor of a claimed	invention in the
I here under	by acknowledge 18 U.S.C. 1001	that any willful false state by fine or imprisonment of	ment made in this declarati not more than five (5) year	ion is punishable s, or both.
descri	WHEREAS, no bed in the above	ew and useful improvemen -identified application.	ts have been made by the un	ndersigned as
havin		Electrolux Appliances Ak	tiebolag	
1	nafter referred to ghout the world	s ac "accionee" is desiroi	143, 105 45 Stockholm, as of acquiring all right, to provements and inventions	ine, and incress
suffic States	ionary of which	are hereby acknowledged	for valuable consideration, all right, title, and intereer said improvements and i	st, in the United

patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignce's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

IN WITNESS WHEREOF, this declaration and assignment has been executed below by the undersigned:

.egal Name of Inventor: Christoph LUCKHARDT
Signature of Inventor:
Date:
Vitness:
Vitness:
1 Signatures of additional inventors on attached sheet(s)

Notice to Inventor(s): A person may not execute this declaration unless that person has reviewed and understands the contents of the above-identified application, including the claims.

Legal Name of Inventor: Fabienne REINHARD-HERRSCHER
Signature of Inventor: J- N. of Meri
Date: 01. 91. 15
Witness: J. B. W. of K
Witness:
Legal Name of Inventor: <u>Kersten KAISER</u>
Signature of Inventor:
Date: 19.2015 Witness: 19.2015
Witness: Lego Raled
Legal Name of Inventor: Christoph WALTHER
Signature of Inventor:
Date:
Witness:
Witness:

Legal Name of Inventor: <u>Daniel ARLER</u>
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: Sandro COMUZZI
Signature of Inventor:
Date;
Witness:
Witness

Attor	ney Docket No.:	
As a l	below-named inventor, I hereby d	eclare that:
METH MOBI		ion entitled:  ON WITH A DOMESTIC APPLIANCE BY A  LE COMPUTER DEVICE AND DOMESTIC
		(TITLE)
(checl	conly one item below)	
[X]	attached hereto,	
OR		
	filed on (YYYY/MM/DD)	as United States Application Number of
	PCT International	
	PCT/EP2015/	·
I belie above I herel	identified application.  by acknowledge that any willful fa	e or authorized to be made by me.  original joint inventor of a claimed invention in the  se statement made in this declaration is punishable ment of not more than five (5) years, or both.
descril	WHEREAS, new and useful impro bed in the above-identified applicati	ovements have been made by the undersigned as on.
having	WHEREAS, <u>Electrolux Applian</u>	ces Aktiebolag .
herein:	after referred to as "assignee", is hout the world in, to, and under s	desirous of acquiring all right, title, and interest aid improvements and inventions and patent rights
suffici States	ency of which are hereby acknow	m that, for valuable consideration, the receipt and ledged, all right, title, and interest, in the United and under said improvements and inventions and all

patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignce's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

IN WITNESS WHEREOF, this declaration and assignment has been executed below by the undersigned:

Legal Name of Inventor: <u>Christoph LUCKHARDT</u>
Signature of Inventor:
Date:
Witness:
Witness:
. [1 Signatures of additional inventors on attached sheet(s)

Notice to Inventor(s): A person may not execute this declaration unless that person has reviewed and understands the contents of the above-identified application, including the claims.

Legal Name of Inventor: Fabienne REINHARD-HERRSCHER
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: Kersten KAISER
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: Christoph WALTHER
Signature of Inventor: La. Calker
Date: 20th of August 2016 Witness: Chare /en
Witness: (Greno /e)
Witness: (O fl)

Legal Name of Inventor:	Daniel ARLER	
Signature of Inventor:		
Date:	-	
Witness:	•	
Witness:		
Legal Name of Inventor:	Sandro COMUZZI	
Signature of Inventor:		
Date:	-	
Witness:		
Witness:		

Attorr	Attorney Docket No.:				
As a l	oelow-named inve	entor, I hereby declare t	hat:		
METH	OD FOR DATA	ed to the application entite	'H A DOMESTIC APPLIA	NCE BY A	
MOBI	LE COMPUTER	DEVICE, MOBILE CO	MPUTER DEVICE AND D	OMESTIC	
APPL	IANCE				
		(TITL	E)		
(checl	only one item be	low)		ŧ	
[X]	attached hereto,				
OR					
			. II. t. J Ctatan Amulia	otion Number or	
[]			as United States Applic. Application	Number	
	PCT	International	• •	Tumou	
	PCT/EP2	015/	· ·		
The al	bove-identified ap	plication was made or au	thorized to be made by me.		
I belie above	eve I am the origin -identified applica	nal inventor or an origina	l joint inventor of a claimed	invention in the	
I here under	by acknowledge t 18 U.S.C. 1001 b	hat any willful false state y fine or imprisonment of	ement made in this declarati f not more than five (5) years	on is punishable s, or both.	
descri		v and useful improvemendentified application.	ts have been made by the un	dersigned as	
havin		lectrolux Appliances Ak	tiebolag	,	
hereir	after referred to ghout the world in	as "assignee", is desiro	143, 105 45 Stockholm, us of acquiring all right, to provements and inventions a	itle, and interest	
suffic States	iency of which a	re hereby acknowledged	for valuable consideration, , all right, title, and interes er said improvements and ir	it, in the United	

patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

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Legal Name of Inventor:	Christoph LUCKHARDT	
Signature of Inventor:		
Date:		
Witness:		
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[ ] Signatures of additional i	eventors on attached sheet(s)	

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Legal Name of Inventor: <u>Fabienne REINHARD-HERRSCHER</u>
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: <u>Kersten KAISER</u>
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: <u>Christoph WALTHER</u>
Signature of Inventor:
Date:
Witness:
Witness:

Additional Inventor(s)
Legal Name of Inventor: Daniel ARLER
Signature of Inventor:
Date: 2017-02/06
Date: 2017-02/06 Witness: Vicktona Agren
Witness: Jola Nilssa
Legal Name of Inventor: Sandro COMUZZI
Signature of Inventor:
Date:
Witness:
Witness:

Attor	ney Docket No.:			*
Asal	below-named inv	ventor, I hereby declare	that:	
this d	eclaration is direc	ted to the application ent	itled:	
			TH A DOMESTIC APPLIA	
***************************************	IANCE	DEVICE, MOBILE C	OMPUTER DEVICE AND D	DOMESTIC
		(TIT)	JE)	
(checl	only one item be	elow)		
[X]	attached hereto,			
OR				
	filed on (YYY)	//MM/DD)	as United States Application	ation Number or
	PCT	International	Application	Number
	PCT/EP	2015/		
The al	pove-identified ap	pplication was made or at	thorized to be made by me.	
	eve I am the origi -identified applica		al joint inventor of a claimed	invention in the
			ement made in this declaration of the following from the five (5) years	
descri		w and useful improvemer identified application.	nts have been made by the und	dersigned as
havîng		llectrolux Appliances Ak	tiebolag	,
herein	after referred to hout the world in	as "assignee", is desiro	143, 105 45 Stockholm, us of acquiring all right, tits provements and inventions a	tle, and interest
	ency of which a	re hereby acknowledged	for valuable consideration, , all right, title, and interest er said improvements and in	t, in the United

patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

IN WITNESS WHEREOF, this declaration and assignment has been executed below by the undersigned:

Legal Name of Inventor:	Christoph LUCKHARDT	
Signature of Inventor:		
Date:		
Witness:	······································	
Witness:		
f 1 Sionatures of additions	d inventors on attached sheet(s)	

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Legal Name of Inventor: <u>Fabienne REINHARD-HERRSCHER</u>
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: <u>Kersten KAISER</u>
Signature of Inventor:
Date:
Witness:
Witness:
Legal Name of Inventor: Christoph WALTHER
Signature of Inventor:
Date:
Witness:
Witness:

Page 3 of 4

Legal Name of Inventor: <u>Daniel ARLER</u>	્
Signature of Inventor:	
Date:	
Witness:	
Witness:	
Legal Name of Inventor: Sandro COMUZZI	
Signature of Inventor:	
Date: 24/02/2017	
Witness: Sale Fig.	
Witness:	