PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Paul Harvey KLAHR	01/17/2012
Ekta Dwahal DHARAIYA	02/02/2012
Scott Kenneth POHLMAN	01/11/2012
Randy Peter LUHTA	07/11/2012

RECEIVING PARTY DATA

Name:	Koninklijke Philips Electronics N V		
Street Address:	Groenewoudseweg 1		
City:	Eindhoven		
State/Country:	NETHERLANDS		
Postal Code:	5621 BA		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13979140

CORRESPONDENCE DATA

Fax Number: 4404832452

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

440-483-2373 Phone:

patricia.heim@philips.com Email: Correspondent Name: Douglas B. McKnight Address Line 1: 595 Miner Road

Address Line 2: Intellectual Property & Standards

Address Line 4: Cleveland, OHIO 44143

ATTORNEY DOCKET NUMBER:	2011P00037WOUS
NAME OF SUBMITTER:	Douglas B. McKnight
Signature:	/Douglas B. McKnight/

REEL: 030773 FRAME: 0846 502415047

Date:	07/11/2013
Total Attachments: 4 source=2011P00037WOUS_Assignment#p. source=2011P00037WOUS_Assignment#p. source=2011P00037WOUS_Assignment#p. source=2011P00037WOUS_Assignment#p.	age2.tif age3.tif

PATENT REEL: 030773 FRAME: 0847

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips Electronics N.V., having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application: is executed concurrently herewith was executed by me/us on Mus filed on having a Serial No. 🔯 was filed on, 2012-Jan-11, having an International Application No. PCT/IB2012/050133, and all rights in and to said application, and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, nonprovisionals divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications. I/We authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to the Assignee(s), for its sole use, and that of its successors, assigns, and legal representatives. I/We will provide my/our cooperation to enable the Assignce to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, I/we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecution actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee. I/We certify that I/we have the full right to convey the above rights. Assignor (print name here) Paul Harvey KLAHR (sign name here) , Assignor Date (print name here) Ekta Dwahai DHARAIYA

Scott Kenneth POHLMAN

Randy Peter LUHTA

(sign name here)

(print name here)

(sign name here)

(print name here)

Date

Date

PATENT REEL: 030773 FRAME: 0848

. Assignor

, Assignor

U.S.A. Sole/Joint

Date

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips Electronics N.V., having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:

		dseweg 1, 5021 BA Emonoven, the Neiner collectively "the Assignee") my/our invent	-
is executed cor	ncurrently herewith		
	oy me/us on	vpovrnu r4w3A6gra403A63A63NE03E03	
		naving a Serial No	*************
		ational Application No. PCT/IB2012/050	
and all rights in an	nd to said application, and all	other United States, foreign and internatio	nal patent applications associated
-		nerefrom including, but not limited to, any	
		ions-in-part, re-examinations, reissues, and	
claim priority ther applications.	eto, and the entire and exclus	ive right, title, and interest in and to any at	nd all patents granted on these
	Patent when granted, solely	te officials in the United States and in any to the Assignee(s), for its sole use, and that	
extent. Upon required legal proceedings necessary, desirable thereto in the Assi	icst at the expense of the Assi including patent prosecution le, or convenient for securing	the Assignee to enjoy the foregoing right ignee, I/we agree to execute all papers, tak actions and infringement actions, and do a and maintaining patents on the foregoing vey the above rights.	e all rightful oaths, testify in all
 Date	(sign name here) (print name here)	Paul Harvey KLAHR	<u> Assignor </u>
2/2/2012	(sign name here)	E.D. Sharaiya	, Assignor
Date	(print name here)	Ekta Dwahal DHAŘÁIYA	
Date	(sign name here) (print name here)	Scott Kenneth POHLMAN	<u>Assignor</u>
	(sien name bere)		, Assignor

Randy Peter LUHTA

(print name here)

PATENT REEL: 030773 FRAME: 0849

Date

(print name here)

Ю

and assign, and N.V., having a	transfer the entire and exclusion place of business at Groenewo	n I/we acknowledge receipt, I/we as a belove right, title, and interest in the following udseweg 1, 5621 BA Eindhoven, the Neth (collectively "the Assignee") my/our inve	to Koninklijke Philips Electronics serlands, its successors, assigns, and
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******	d by me/us on		
		having a Serial No	
		national Application No. PCT/IB2012/05	
and all rights in	and to said application, and al	l other United States, foreign and internati	ional patent applications associated
		therefrom including, but not limited to, an	
		tions-in-part, re-examinations, reissues, a	
claim priority th applications.	ereto, and the entire and exclu	sive right, title, and interest in and to any	and all patents granted on these
	ers Patent when granted, solely	ice officials in the United States and in any to the Assignce(s), for its sole use, and the	
extent. Upon re- legal proceeding	quest at the expense of the Ass is including patent prosecution able, or convenient for securing	e the Assignee to enjoy the foregoing right ignee. I/we agree to execute all papers, ta actions and infringement actions, and do g and maintaining patents on the foregoing	ke all rightful oaths, testify in all all other such acts which may be
I/We certify that	Uwe have the full right to con	vey the above rights.	
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Date	(print name here)	Paul Harvey KLAHR	
***************************************	(sign name here)		. Assignor
Date	(print name here)	Ekta Dwahai DHARAIYA	31.3N00120152td
11-50-12		9244D	
***************************************	—— (sign name here)	and the state of t	<u>, Assignor</u>

Scott Kenneth POHLMAN

PATENT REEL: 030773 FRAME: 0850

and assign, and transfer N.V., having a place of l	the entire and exclusive business at Groenewoud	/we acknowledge receipt, I/we as a below right, title, and interest in the following diseweg 1, 5621 BA Eindhoven, the Nethoxollectively "the Assignee") my/our investignee.	to Koninklijke Philips Electronics erlands, its successors, assigns, and
	us on, , }	naving a Serial Noational Application No. PCT/IB2012/05	
therewith, based thereon provisionals divisions, c	, or claiming priority th ontinuations, continuati	other United States, foreign and internation of the internation of the including, but not limited to, any internations, reissues, are interest in and to any any and interest in and to any and and any and and and any any any any any and any	y and all provisionals, non- nd extensions thereof, and the right to
•		e officials in the United States and in any to the Assignee(s), for its sole use, and th	•
extent. Upon request at legal proceedings includ	the expense of the Assi	the Assignee to enjoy the foregoing right gnee, I/we agree to execute all papers, ta actions and infringement actions, and do and maintaining patents on the foregoing	ke all rightful oaths, testify in all all all other such acts which may be
I/We certify that I/we ha	ive the full right to conv	rey the above rights.	
Date	(sign name here) (print name here)	Paul Harvey KLAHR	. Assigner
Date	(sign name here) (print name here)	Ekta Dwahai DHARAIYA	. Assisnor
Date	(sign name here) (print name here)	Scott Kenneth POHLMAN	. Assignor

PATENT REEL: 030773 FRAME: 0851

RECORDED: 07/11/2013