503324572 05/28/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
VISHNU VARDHAN MAKKAPATI	04/12/2013
MICHAEL MATHIAS SPAETH	05/03/2015
SHRUTIN ULMAN	05/08/2015

RECEIVING PARTY DATA

Name:	KONINKLIJKE PHILIPS N.V.	
Street Address: HIGH TECH CAMPUS, BUILDING 5		
City:	EINDHOVEN	
State/Country: NETHERLANDS		
Postal Code:	5656 AE	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14647834

CORRESPONDENCE DATA

Fax Number: (440)483-2452

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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Address Line 4: CLEVELAND, OHIO 44143

ATTORNEY DOCKET NUMBER:	2012P01591WOUS
NAME OF SUBMITTER:	THOMAS M. LUNDIN
SIGNATURE:	/Thomas M. Lundin/
DATE SIGNED:	05/28/2015

Total Attachments: 3

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> **PATENT REEL: 035728 FRAME: 0320** 503324572

title, and interest in the following to Ko Bindhoven, the Netherlands, its success	
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the Assignee") my/our invention for w	/hich an application:

s Serial No	9A6n54934
Application No. PCT/IB2013/060564	
nited States, foreign and international	patent applications associated
n including, but not limited to, any and	all provisionals, non-
part, re-examinations, reissues, and ex	tensions thereof, and the right to
t, title, and interest in and to any and a	II patents granted on these
als in the United States and in any and	
	to anomorous acongina, usia
signee to enjoy the foregoing right, titl	e, and interest to the fullest
we agree to execute all papers, take all	rightful oaths, testify in all
and infringement actions, and do all ot	her such acts which may be
intaining patents on the foregoing inve	ention or for perfecting title
above rights.	
alker index	
Vishnu Vardhan MAKKAPATI	, Assignor
Vichael Mathias SPAETH	, Assignor
Shrutin ULMAN	, Assignor
	Serial No

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and assign, and transfo a place of business at	er the entire and exclusive ri High Tech Campus 5,5656 /	e acknowledge receipt, I/we as a belo- ght, title, and interest in the following VE, Eindhoven, the Netherlands, its su ely "the Assignee") my/our invention	to Koninklijke Philips N.V., having ocessors, assigns, and legal
was filed on	ne/us on hav	ing a Serial No	
therewith, based there provisionals divisions,	on, or claiming priority there continuations, continuation	or United States, foreign and internation from including, but not limited to, any s-in-part, re-examinations, reissues, and right, title, and interest in and to any s	y and all provisionals, non- ed extensions thereof, and the right to
	•	fficials in the United States and in any he Assignee(s), for its sole use, and th	150
extent. Upon request a legal proceedings inclu	at the expense of the Assigna ading patent prosecution acti r convenient for securing an	e Assignee to enjoy the foregoing righte. I'we agree to execute all papers, taltons and infringement actions, and do a maintaining patents on the foregoins	ke all rightful oathe, testify in all all other such acts which may be
I/We certify that I/we I	have the full right to convey	the above rights.	
Date 03.04. 44	(sign name here) (print name here) [NCU 42] SPAETN (print name here)	Vishne Vardhan MAKKAPATI 1-1-1	, Assignor
Date	(print name here)	Shruiin ULMAN	, Assígnor

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ASSIGNMENT

U.S.A. Sole/Joint

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 N.V., having
a place of business at High Tech Campus 5,5656 AE, 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
	was filed on, having a Serial No
X	was filed on, 92 Dec 2013, having an International Application No. PCT/IB2013/060564,

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, non-provisionals 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 Assignee 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.

	_(sign name here)		
Date	(print name here)	Vishee Verdhan MAKKAPATI	, Assignor
Date on the	(print name here)	Michael Mathias SPALTH	, Assignor
Date 2013	(print name here)	Shrutin ULMAN /	, Assignor

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