## 502164995 12/17/2012

### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
WILLEM PIET VAN HOOF	09/18/2012
ERIK BOONEKAMP	09/22/2011
ELENA TIZIANA FERRARI	09/19/2011
GEORGE FREDERIC YIANNI	09/18/2012

## RECEIVING PARTY DATA

Name:	Koninklijke Philips Electronics N V	
Street Address:	High Tech Campus 5	
City:	Eindhoven	
State/Country:	NETHERLANDS	
Postal Code:	5656AE	

# PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13704721

# CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	2010P00520WOUS
NAME OF SUBMITTER:	MARK L. BELOBORODOV

## Total Attachments: 4

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PATENT REEL: 029480 FRAME: 0293 **840.**00 13704

502164995

For good and valuable	consideration, of which L/v	ve acknowledge receipt, I/we as a belo	w-named Assignor(s), hereby sell,
and assign, and transfe	er the entire and exclusive r	ight, title, and interest in the following	to Koninklijke Philips Electronics
N.V., having a place o	f business at Groenewouds	eweg 1, 5621 BA Eindhoven, the Neth	erlands, its successors, assigns, and
legal representatives, i	ncluding any nominees (co	llectively "the Assignee") my/our inve	ention for which an application:
is executed concur	rently herewith		
	e/us on	(3)(3)16311(3)11(3)11(3)11(3)11(3)11(3)1	
was filed on	, ha	ving a Serial No	***************************************
was filed on. 2011	-May-23, having an Interna	tional Application No. PCT/IB2011/0	952231,
and all rights in and to	said application, and all of	her United States, foreign and internat	ional patent applications associated
therewith, based there	on, or claiming priority the	efrom including, but not limited to, ar	ny and all provisionals, non-
provisionals divisions,	continuations, continuation	ns-in-part, "e-examinations, reissues, a	and extensions thereof, and the right
to claim priority theres applications.	o, and the entire and exclus	sive right, title, and interest in and to a	ny and all patents granted on these
I/We authorize and rec	quest that the Patent Office	officials in the United States and in an	y and all foreign countries to issue
		Koninklijke Philips Electronics N.V.,	· ·
successors, assigns, an	d legal representatives.		
I/We will provide my/	our cooperation to enable t	ne Assignee to enjoy the foregoing rig	ht, title, and interest to the fullest
extent. Upon request	at the expense of the Assign	iee, I/we agree to execute all papers, to	ake all rightful oaths, testify in all
legal proceedings incl	ading patent prosecution ac	tions and infringement actions, and do	all other such acts which may be
necessary, desirable, o	r convenient for securing a	nd maintaining patents on the foregoir	ng invention or for perfecting title
thereto in the Assigned	·		
I/We certify that I/we	have the full right to conve	y the above rights.	
		3 1	
10-09-2012	(sign name here)	U AUT	, Assignor
Date	(print name here)	Willem Piet VAN HOOF	
Date	(print name here)	Erik BOONEKAMP	
Date	(print name here)	Elena Tiziana FERRARI	

Page 1 of 1

(print name here)

Date

George Frederic YIANNI

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

		eg 1, 5621 BA Eindhoven, the Nethe ctively "the Assignee") my/our inven	-
is executed concurr	ently herewith		
	e/us on		
was filed on	, havir	ıg a Serial No	v24.34.34.34.34.
was filed on. 2011-	May-23, having an Internation	onal Application No. PCT/IB2011/05	2231,
and all rights in and to	said application, and all othe	r United States, foreign and internatio	nal patent applications associated
		rom including, but not limited to, any	
		in-part,e-examinations, reissues, an	
to claim priority thereto applications.	o, and the entire and exclusiv	e right, title, and interest in and to any	and all patents granted on these
	ent when granted, solely to Ko	ocials in the United States and in any oninklijke Philips Electronics N.V., for	_
extent. Upon request a legal proceedings inclu	t the expense of the Assignee ding patent prosecution actio convenient for securing and	Assignee to enjoy the foregoing right, I/we agree to execute all papers, tak ns and infringement actions, and do a maintaining patents on the foregoing	e all rightful oaths, testify in all
I/We certify that I/we h	ave the full right to convey the	ne above rights.	
	(sign name here)		, Assignor
Date ,	(print name here)	Willem Piet VAN HOOF	
bluber 22 nd	Fiil Roonelon v	Akono leo neo	
ptember 22 Date 2011	(print name here)	Erik BOONEKAMP	
Date	(print name here)	Elena Tiziana FERRARI	
Date	(print name here)	George Frederic YIANNI	

Page 1 of 1

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sell,

and assign, and tran	sfer the entire and exclusive i	right, title, and interest in the following to	Koninklijke Philips Electronics
N.V., having a place	e of business at Groenewouds	seweg 1, 5621 BA Eindhoven, the Nether	rlands, its successors, assigns, and
legal representative	s, including any nominees (co	ollectively "the Assignee") my/our inven	tion for which an application:
is executed cond	currently herewith		
	me/us on	31431631631631631631631631631631	
		iving a Serial No	
		ational Application No. PCT/IB2011/05	
and all rights in and	to said application, and all or	ther United States, foreign and internatio	nal patent applications associated
therewith, based the	reon, or claiming priority the	refrom including, but not limited to, any	and all provisionals, non-
provisionals divisio	ns, continuations, continuatio	ns-in-part, _e-examinations, reissues, and	d extensions thereof, and the right
	reto, and the entire and exclu	sive 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 l	Patent when granted, solely to	Koninklijke Philips Electronics N.V., fo	or its sole use, and that of its
successors, assigns,	and legal representatives.		
I/We will provide n	nv/our cooperation to enable t	he Assignee to enjoy the foregoing right	. title, and interest to the fullest
		nee, I/we agree to execute all papers, tak	
		ctions and infringement actions, and do a	•
		and maintaining patents on the foregoing	•
thereto in the Assig	· ·		χ
I/We certify that I/v	ve have the full right to conve	ry the above rights.	
	(sign name here)		, Assignor
Date	(print name here)	Willem Piet VAN HOOF	
Date	(print name here)	Erik BOONEKAMP	
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Date J	(print name here)	Elena Tiziana FERRARI	Was a second and a second a second and a second a second and a second a second and
Date	(print name here)	George Frederic YIANNI	

Page 1 of 1

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

		seweg 1, 3621 BA Eindhoven, the Netho	
legal representative	es, including any nominees (co	ollectively "the Assignee") my/our inver	ntion for which an application:
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	y me/us on		
		aving a Serial No.	
was med on. 20	111-Way-23, naving an Intern	ational Application No. PCT/IB2011/09	52231,
and all rights in and	l to said application, and all o	ther United States, foreign and internation	onal notant applications associated
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		Koninklijke Philips Electronics N.V., f	
	and legal representatives.	en de la companya de La companya de la co	• • • • • • • • • • • • • • • • • • •
I/We will provide m	ny/our cooperation to enable t	he Assignee to enjoy the foregoing right	, title, and interest to the fullest
extent. Upon reque	st at the expense of the Assign	nee, I/we agree to execute all papers, tak	te all rightful oaths, testify in all
legal proceedings in	cluding patent prosecution ac	ctions and infringement actions, and do a	all other such acts which may be
necessary, desirable	, or convenient for securing a	nd maintaining patents on the foregoing	invention or for perfecting title
thereto in the Assign	nee.		
I/We certify that I/w	e have the full right to conve	y the above rights.	
	(sign name here)		, Assignor
Date	(print name here)	Willem Piet VAN HOOF	
Date	(print name here)	Erik BOONEKAMP	
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Date	(print name here)	Elena Tiziana FERRARI	Additional Additional Additional and a second and a secon
18/69/12	Canada de la canad	<u>90112</u>	
Date	(print name here)	George Frederic YIANNI	

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**RECORDED: 12/17/2012**