

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>CHRISTIAN BOGDAN CRAUS</td> <td>06/25/2012</td> </tr> <tr> <td>JACOB MARINUS JAN DEN TOONDER</td> <td>06/06/2012</td> </tr> <tr> <td>ROEL PENTERMAN</td> <td>07/03/2012</td> </tr> <tr> <td>PIETER JAN VAN DER ZAAG</td> <td>06/06/2012</td> </tr> </tbody> </table>		Name	Execution Date	CHRISTIAN BOGDAN CRAUS	06/25/2012	JACOB MARINUS JAN DEN TOONDER	06/06/2012	ROEL PENTERMAN	07/03/2012	PIETER JAN VAN DER ZAAG	06/06/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>KONINKLIJKE PHILIPS N.V.</td> </tr> <tr> <td>Street Address:</td> <td>GROENEWOUDSEWEG 1</td> </tr> <tr> <td>City:</td> <td>EINDHOVEN</td> </tr> <tr> <td>State/Country:</td> <td>NETHERLANDS</td> </tr> <tr> <td>Postal Code:</td> <td>5621BA</td> </tr> </table>		Name:	KONINKLIJKE PHILIPS N.V.	Street Address:	GROENEWOUDSEWEG 1	City:	EINDHOVEN	State/Country:	NETHERLANDS	Postal Code:	5621BA
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number:</p> <p>Phone: 914-945-6000</p> <p>Email: MARIANNE.FOX@philips.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: PHILIPS INTELLECTUAL PROPERTY & STANDARD</p> <p>Address Line 1: P.O. BOX 3001</p> <p>Address Line 4: BRIARCLIFF MANOR, NEW YORK 10510</p>											
NAME OF SUBMITTER:	FRANK J. KEEGAN										
Signature:	/FRANK J. KEEGAN/										
Date:	11/13/2013										

CH \$40.00 14117378

Total Attachments: 4

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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
☐ was filed on., having a Serial No.
☒ was filed on. **2012-Jun-05**, having an International Application No. **PCT/IB2012/052812**.

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 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.

25.06.2012 (sign name here)  Assignor
Date (print name here) Cristin Bogdan CRAUS

_____ (sign name here) _____ Assignor
Date (print name here) **Jacob Marinus Jan DEN TOONDER**

Date (sign name here) (print name here) **Rod PENTERMAN** _____
Assignor

Date (sign name here) (print name here) **Pieter Jan VAN DER ZAAG** Assignor

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_____	(sign name here)	_____	Assignor
Date	(print name here)	Cristian Bogdan CRAUS	
6/6/2012	(sign name here)	_____	Assignor
Date	(print name here)	Jacob Marinus Jan DEN TOONDER	
_____	(sign name here)	_____	Assignor
Date	(print name here)	Roel PENTERMAN	
_____	(sign name here)	_____	Assignor
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Date (sign name here)
(print name here) Cristian Bogdan CRAUS Assignor

Date (sign name here)
(print name here) Jacob Marinus Jan DEN TOONDER Assignor

3-7-2012
Date (sign name here)
(print name here) Roel PENTERMAN Assignor

Date (sign name here)
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6-6-12
Date (sign name here) (print name here) Pieter Jan VAN DER ZAAG . Assignor