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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | NEW ASSIGNMENT | | | |
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| NATURE OF CONVEYANCE: | ASSIGNMENT | ASSIGNMENT | | | |
| CONVEYING PARTY DATA | | | | | |
| | Name | Execution Date | | | |
| DAGNACHEW BIRRU | 01/18/2013 | | | | |
| YAO-JUNG WEN | | | | | |
| RECEIVING PARTY DATA | | | | | |
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| State/Country: NETHERLANI | NETHERLANDS | | | | |
| Postal Code: 5656 AE | | | | | |
| | | | | | |
| Property Type | Nun | nber | | | |
| Application Number: | Num 14241465 | nber | | | |
| Application Number: CORRESPONDENCE DATA Fax Number: (914 Phone: 914- Email: eliss Correspondence will be sent via US Ma Correspondent Name: PHII Address Line 1: P.O. | | | | | |
| Application Number: CORRESPONDENCE DATA Fax Number: (914 Phone: 914- Email: eliss Correspondence will be sent via US Ma Correspondent Name: PHII Address Line 1: P.O. | 14241465 2)332-0615 2945-6000 2a.deluccy@philips.com 2ail when the email attempt is unsuccessful. LIPS INTELLECTUAL PROPERTY & STA 3. BOX 3001 | | | | |
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| Application Number: CORRESPONDENCE DATA Fax Number: (914 Phone: 914- Email: eliss Correspondence will be sent via US Ma Correspondent Name: PHII Address Line 1: P.O. Address Line 4: BRIA | 14241465 2)332-0615 2945-6000 Sa.deluccy@philips.com Sail when the email attempt is unsuccessful. LIPS INTELLECTUAL PROPERTY & STA 3. BOX 3001 ARCLIFF MANOR, NEW YORK 10510 2011P01143WOUS | | | | |
| Application Number: CORRESPONDENCE DATA Fax Number: (914 Phone: 914- Email: eliss Correspondence will be sent via US Ma Correspondent Name: PHII Address Line 1: P.O. Address Line 4: BRIA ATTORNEY DOCKET NUMBER: NAME OF SUBMITTER: | 14241465 4)332-0615 -945-6000 sa.deluccy@philips.com sail when the email attempt is unsuccessful. LIPS INTELLECTUAL PROPERTY & STA . BOX 3001 ARCLIFF MANOR, NEW YORK 10510 2011P01143WOUS DANIEL J. PIOTROWSKI | | | | |

PATENT REEL: 032309 FRAME: 0193

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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 High Tech Campus 5,5656 AE, Eindhoven, the Netherlands, its successors, assigns, an |
| legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application: |
| |
| is executed concurrently herewith |

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.

| Jan 18, 2013 | (sign name here) | EATH- | |
|--------------|-------------------|-----------------|------------|
| Date ' | (print name here) | Dagnachew BIRRU | , Assignor |
| Date | (print name here) | Yso-Jung WEN | , Assignor |

Page 1 of 1

Car

| For good and valuable co | onsideration, of which I/w | /e acknowledge receipt, I/we as a be | low-named Assignor(s), hereby sell, |
|----------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| and assign, and transfer t | the entire and exclusive ri | ght, title, and interest in the following | ng to Koninklijke Philips Electronics |
| N.V., having a place of b | ousiness at High Tech Car | mpus 5,5656 AE, Eindhoven, the Ne | therlands, its successors, assigns, and |
| legal representatives, inc | hiding any nominees (col | llectively "the Assignee") my/our in | vention for which an application: |
| is executed concurrer | ntly herewith | | |
| was executed by me/ | us on | *************************************** | |
| was filed on | , ha | ving a Serial No | ***** |
| | | onal Application No. PCT/IB2012/ | |
| therewith, based thereon provisionals divisions, c | , or claiming priority ther ontinuations, continuation | efrom including, but not limited to, | and extensions thereof, and the right to |
| ů. | | officials in the United States and in the Assignee(s), for its sole use, and | any and all foreign countries to issue I that of its successors, assigns, and |
| | | ne Assignee to enjoy the foregoing r nee, I/we agree to execute all papers, | |
| · · · · · · · · · · · · · · · · · · · | • | tions and infringement actions, and | |
| | | nd maintaining patents on the forego | • |
| thereto in the Assignee. | | na managaring parama on ma toroge | mig minimum or for personing and |
| I/We certify that I/we ha | we the full right to conve | y the above rights. | |
| | | | |
| | (sign name here) | | |
| Date 1/17/50/3 | (print name here) | Dagnachew BIRRU | , Assignor |
| Date | (print name here) | Vao-Jung WEN | , Assignor |

Page 1 of 1