

501956819 06/15/2012

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:

CORRECTIVE ASSIGNMENT

NATURE OF CONVEYANCE:

Corrective Assignment to correct the Country previously recorded on Reel
023933 Frame 0915. Assignor(s) hereby confirms the Country to be Republic of
Korea.

CONVEYING PARTY DATA

Name	Execution Date
Hyunja SHIM	01/25/2010
Seungyeon LEE	01/25/2010
Dongjoo YOU	01/25/2010
Heonmin LEE	01/25/2010
Suntae HWANG	01/25/2010
Sehwon AHN	01/25/2010
Youngjoo EO	01/25/2010

RECEIVING PARTY DATA

Name:	LG ELECTRONICS INC.
Street Address:	20 Yeouido-dong, Yeongdeungpo-gu
City:	Seoul
State/Country:	KOREA, REPUBLIC OF
Postal Code:	150-721

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12702893

CORRESPONDENCE DATA

Fax Number: (703)205-8050
Phone: 703-205-8000
Email: hughesb@bskb.com, mailbox@bskb.com
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent
via US Mail.*

Correspondent Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP
Address Line 1: P.O. Box 747
Address Line 4: Falls Church, VIRGINIA 22040-0747

PATENT

REEL: 028619 FRAME: 0948

OP \$40.00 12702893

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

02/12/2010
501092373

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hyunja SHIM	01/25/2010
Seungyeon LEE	01/25/2010
Dongjoo YOU	01/25/2010
Heonmin LEE	01/25/2010
Suntae HWANG	01/25/2010
Sehwon AHN	01/25/2010
Youngjoo EO	01/31/2010

RECEIVING PARTY DATA

Name:	LG Electronics, Inc.
Street Address:	20 Yeouido-dong, Yeongdeungpo-gu
City:	Seoul
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
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Application Number:	12702893

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Fax Number: (703)205-8050
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 703-205-8000
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Address Line 1: PO Box 747
Address Line 4: Falls Church, VIRGINIA 22040-0747

ATTORNEY DOCKET NUMBER: 1830-0775PUS1

PATENT

REEL: 028619 FRAME: 0949

CH \$40.00 12702893

NAME OF SUBMITTER:

Esther Hyeri Chong

Total Attachments: 3

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PATENT

REEL: 028619 FRAME: 0950

Form PTO-1595 (Rev. 01-09)
OMB No. 0651-0027 (exp. 02/28/2009)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

501956819

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Hyunja SHIM, Seungyoo LEE, Dongjoo YOU,
Heonmin LEE, Suntae HWANG, Sehwon AHN,
Youngjoo EO

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): January 25, 2012

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☒ Other Assignment Correction

2. Name and address of receiving party(ies)

Name: LG ELECTRONICS, INC.

Internal Address: 20 Yeouido-dong, Yeongdeungpo-gu

Street Address: 20 Yeouido-dong, Yeongdeungpo-gu

City: Seoul

State:

Country: Republic of Korea Zip: 150-721

Additional name(s) & address(es) attached? ☐ Yes ☐ No

4. Application or patent number(s):

A. Patent Application No.(s)

12/702,893

☐ This document is being filed together with a new application.
B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Internal Address: P.O. Box 747

Street Address: 8110 Gatehouse Road, Suite 300 East

City: Falls Church

State: Virginia Zip: 22040-0747

Phone Number: (703) 205-8000

Fax Number: (703) 205-8050

Email Address: mailbox@bskb.com

6. Total number of applications and patents involved:

one (1)

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 0.00

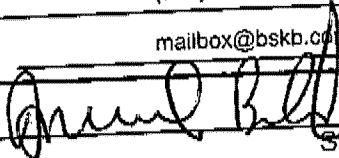
- ☐ Authorized to be charged to deposit account
☐ Enclosed
☒ None required (government interest not affecting title)

Payment Information:

Deposit Account Number: 02-2448

Authorized User Name: Esther H. Chong

9. Signature:



DAVID A. BILODEAU

Signature

USPTO #42,325

JUL 19 2012

Date

Esther H. Chong

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT

REEL: 028619 FRAME: 0951

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PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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>Hyunja SHIM</td><td>01/25/2010</td></tr><tr><td>Seungyeon LEE</td><td>01/25/2010</td></tr><tr><td>Dongjoo YOU</td><td>01/25/2010</td></tr><tr><td>Heonmin LEE</td><td>01/25/2010</td></tr><tr><td>Suntae HWANG</td><td>01/25/2010</td></tr><tr><td>Sehwon AHN</td><td>01/25/2010</td></tr><tr><td>Youngjoo EO</td><td>01/31/2010</td></tr></tbody></table>		Name	Execution Date	Hyunja SHIM	01/25/2010	Seungyeon LEE	01/25/2010	Dongjoo YOU	01/25/2010	Heonmin LEE	01/25/2010	Suntae HWANG	01/25/2010	Sehwon AHN	01/25/2010	Youngjoo EO	01/31/2010
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PATENT

REEL: 028619 FRAME: 0952

USPTO. EPAS. Receipt

Application Number: 12702893	
CORRESPONDENCE DATA	
Fax Number: (703)205-8050 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone: 703-205-8000	
Email: suprb@bskb.com	
Correspondent Name: Birch, Stewart, Kolusch & Birch, L.L.P.	
Address Line 1: PO Box 747	
Address Line 4: Falls Church, VIRGINIA 22040-0747	
ATTORNEY DOCKET NUMBER:	1630-0775PUS1
NAME OF SUBMITTER:	Esther Hyeri Chong
Signature:	/esther hyeri chong/
Date:	02/12/2010
Total Attachments: 3 source=assignment#page1.tif source=assignment#page2.tif source=assignment#page3.tif	
RECEIPT INFORMATION	
EPAS ID: PAT1113866	
Receipt Date: 02/12/2010	
Fee Amount: \$40	

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02/12/2010

ATTORNEY DOCKET NO. 1630-0775FUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. 12/702,893Filed February 9, 2010Insert Name(s)
of Inventor(s)

*** (Given Name FAMILY NAME (ALL CAPS)) ***

WHEREAS, Hyunja SHIM; Seungyeon LEE; Dongjoo YOU; Heonmin LEE; Suntae HWANG;
Schwon AHN; and Youngjoo EO (hereinafter designated as the undersigned) has (have) invented
certain new and useful improvements in:

Insert Title
of Invention**SOLAR CELL**

for which an application for Letters Patent of the United States of America has been executed by the
undersigned (except in the case of a provisional application)

Insert Date
of Signing of
Application

on 1/25, 1/25, 1/25, 1/24, 1/25, 1/25 & 1/31, 2010 and respectively

Insert Name
of Assignee
Insert Address
of Assignee**WHEREAS, LG Electronics Inc.**

of 20 Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is
desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters
Patent(s) that may be granted therefor in the United States of America and

**CHECK BOX
IF APPROPRIATE**☒ In any foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand
paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the
undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and
transfer unto said Assignee the full and exclusive right to the said invention in the United States of
America, its territories, dependencies and possessions and the entire right, title and interest in and to
any and all Letters Patent(s) which may be granted therefor in the United States of America, its
territories, dependencies and possessions, and if the box above is designated, in any and all foreign
countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full
term or terms for which the same may be granted.

PATENT**REEL: 028619 FRAME: 0954**

Attorney Docket No. 1630-0775PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

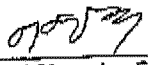
Date <u>01 / 25 / 10</u>	Name of Inventor <u>Sh Hyun Ju</u> (signature) Hyunja SHIM
Date <u>01 / 25 / 10</u>	Name of Inventor <u>Seungyeon LEE</u> (signature) Seungyeon LEE
Date <u>01 / 25 / 10</u>	Name of Inventor <u>Dongjoo YU</u> (signature) Dongjoo YU
Date <u>01 / 25 / 10</u>	Name of Inventor <u>Heonmin LEE</u> (signature) Heonmin LEE
Date <u>01 / 25 / 10</u>	Name of Inventor <u>Sunme HWANG</u> (signature) Sunme HWANG
Date <u>01 / 25 / 10</u>	Name of Inventor <u>Schwon AHN</u> (signature) Schwon AHN

PATENT

REEL: 028619 FRAME: 0955

Attorney Docket No. 1630-0775PUS1

Date 01/31/10

Name of Inventor 
(signature) Youngjoo EO