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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | | NEW ASSIGNMENT | |
|--|---------|--------------------------|----------------|
| NATURE OF CONVEYA | NCE: | ASSIGNMENT | |
| CONVEYING PARTY D | ΑΤΑ | | |
| | | Name | Execution Date |
| JUN HO JANG | | | 04/24/2007 |
| GEUN HO KIM | | 04/24/2007 | |
| RECEIVING PARTY DA | ТА | | |
| RECEIVING PARTY DATA Name: LG ELECTRONICS INC. | | | |
| Street Address: | | OUI-DAERO | |
| Internal Address: | | DEUNGPO-GU | |
| City: | SEOUL | | |
| - | | REPUBLIC OF | |
| Postal Code: | 07336 | | |
| Name: | LG INNO | DTEK CO., LTD. | |
| Street Address: | 541, NA | MDAEMUNNO, 5-GA, JUNG-GU | |
| City: | SEOUL | | |
| State/Country: | KOREA, | REPUBLIC OF | |
| Postal Code: | 100-714 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15059881 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | - | 10401.00126.US24 | | |
| NAME OF SUBMITTER: | | RANDALL C. PYLES | | |

| SIGNATURE: | /Randall C. Pyles #66523/ |
|---|---------------------------|
| DATE SIGNED: | 03/03/2016 |
| Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif | |





Assignment of Application

| WHEREAS, I | VE) JANC, Jon He, KIM, Geun | ho. | |
|-------------------------|---|-----------|-----------------|
| | · . | | , respectively, |
| have invented certain | new and useful improvements in: | | |
| | G DEVICE HAVING VERTICAL AND METHOD FOR MANUFACT | FURING TH | RE, PACKAGE |
| for which an applicatio | on for Letters Patent was axocuted on | 1 | |
| | an in manies a storit was executed of | | • |

| (Application No. | |), and |
|----------------------|--|--------|
| WHEREAS, | LG ELECTRONICS INC. AND LG INNOTEK CO. LTD. | 1 // |
| (nercine fler referr | ed to as "ASSIGNEE") both having a place of business at: (oungdungpo-gu, Scoul, Republic of Korea | ' |

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Lotters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire-right, this and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale-not-been mode.

Further, J (WE) agree that I (WE) will communicate to said ASSIGNEB or its (his) representatives any facts known to me (us) respecting said invention, and matify in any logalproceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper projection for anticenters the United Statistics in the toric rest possession —

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The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

MCKENNA

| Dois: 2007. 4. 24 | junho jang | • |
|-------------------|-------------------------|---|
| | (Signature of Inverser) | • |
| Dow: 2007. 4 24 | (Signature of Inventor) | • |
| | KIM, Geun ho | • |

Detc:_____

Duie:_____

25-04-07;18:20

Page 2 of 2

McKenns Long & Aldridge LLP Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

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(Signature of)

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