502890353 07/14/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2936950

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date | |
|-------------|----------------|--|
| DO-YOUB KIM | 06/19/2014 | |
| AN-SU LEE | 06/19/2014 | |

RECEIVING PARTY DATA

| Name: | SAMSUNG DISPLAY CO., LTD. | |
|--|---------------------------|--|
| Street Address: 95, SAMSUNG 2 RO, GIHEUNG-GU | | |
| City: | YONGIN-CITY, GYEONGGI-DO | |
| State/Country: | KOREA, REPUBLIC OF | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14318197 |

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| NAME OF SUBMITTER: ROBERT E BUSHNELL | |
|--------------------------------------|---------------------|
| SIGNATURE: | /Robert E Bushnell/ |
| DATE SIGNED: | 07/14/2014 |

Total Attachments: 3

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PATENT REEL: 033305 FRAME: 0809 502890353

PTO/AJA/(11/2012) Docket No. P60130

COMBINED ASSIGNMENT AND DECLARATION (One of Three)

ASSIGNMENT

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that:
CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and

IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt and sufficiency of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE:

SAMSUNG DISPLAY CO., LTD.,

ADDRESS:

a corporation chartered in and existing under the laws of the Republic of Korea,

95 Samsung 2 Ro, Giheung-gu,

Yongin-City, Gyeonggi-do, Republic of Korea

Who is my Assignee, and to the successors and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, including all rights to claim priority, and including the right to sue or otherwise bring action and to collect and receive damages therefrom, for past infringement thereof, and all rights to claim priority under all available International Agreements, Treaties and Conventions for the protection of imellectual property in its various forms in every participating country, and the right to collect reasonable royalties for pre-grant U.S. patent application publications, in and to the invention entitled:

TITLE: DISPLAY PANEL, DISPLAY APPARATUS HAVING THE SAME AND METHOD FOR DISPLAYING IMAGE USING THE SAME

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment, or is more particularly identified as:

| | executed on even date herewith, or | | | 4 | n 14 | ٠ | |
|-----|------------------------------------|-------------------------|-----------------------|------|-------------|---------------|---|
| ij. | Serial No. | filed in the U.S. Pater | it & Trademark Office | : OB | | | |
| a | executed on | | | | *********** | ************* | » |

and in and to all United States patents which may be granted thereon and therefor, and in and to all certificates of corrections, divisions, continuations, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said Samsung Display Co., Ltd., my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made:

AND I grant full power of attorney to my Assignee to submit this Deed of Assignment, including any Annex, to the U.S. Patent & Trademark Office, and to request the U.S. Patent & Trademark Office to record this assignment of the legal title to the Assigned Patents from Assignor to Assignees among the Assignment Records maintained by the U.S. Patent & Trademark Office;

AND I hereby covenant and agree to sign and execute, without receiving any money or other consideration, any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of all substitute applications, certificate of correction, division, continuation, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreement or treaty to which the United States of America adheres:

AND I do hereby authorize and request the Commissioner of Patent & Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request R. E. Bushnell, Reg. No. 27,774, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply the rules of the United States Patent & Trademark Office for recordation of this document.

PATENT REEL: 033305 FRAME: 0810 PTO/AIA/ (11/2012) Docket No. P60130

COMBINED ASSIGNMENT AND DECLARATION (Two of Three)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| As the below named in | ventor, I hereby declare that this de- | clamition is directed to: | |
|---|---|---|---|
| The sittached application | ss, or | | |
| United States application | on or PCT international application | number filed on | |
| The above-identified a | pplication was made or authorized t | o be made by me. | |
| I believe that I am the | original inventor or an original joint | inventor of a claimed invention in the | application. |
| amended by any amendment re to the examination of this appli priority benefits under Title 35, § 365(a) of any PCT Internation | ferred to above. I acknowledge the cation in accordance with Title 37 (U.S. Code § 11%a)-(d) or § 3650 mal application which designated a | ntents of the shove-identified specifical duty to disclose information which is of the Code of Federal Regulations \$0) of any foreign application(s) for pata t least one country other than the United identified below any foreign application is possible. | s material to patentability and 1.56. I hereby claim foreign ent or inventor's certificate, or ted States, or § 119(e) of any |
| certificate having a filing date b | refore that of the application on whi- | ch priority is claimed: | |
| 10-2013-0077921 | Republic of Korea | 3 July 2013 | Priority Claimed: |
| (Application Number) | (County) | (Day/Month/Year filed) | Yes [X] No[] |
| paragraph of Title 35, U.S. Cod | le, § 112, I acknowledge the duty it ms, § 1.56(a) which became availa | International application(s) in the a disclose information material to pate bie between the filing date of the price | ntability as defined in Title 37, |
| (Application Sonal No.) | (Filing Date) | (STATUS: perceived, pending, absorbosed) | |
| under 18 U.S.C. §1001 by fine | FAF I become seknowledge that | any willful false statement made in | this declaration is punishable |
| 27774. Michael D Parker, Reg. Reg. No. 36,938, Young James Li, Limited Recognition No. L and Chiyat B. Yau, Reg. No. 2 connected therewith and with a | or imprisonment of not more than f eviously granted powers of attorney. No. 34973, Joseph G Sceber, Reg. Kim, Reg. No. 56213, Mark Konie .0557, Tomoko Yota, Limited Rec. 71330 to prosecute this application any divisional, continuation, continu- ower to substitute an associate attorn | ive (5) years, or both. y and appoint the following attorneys. No. 27719, Matthew J Lestina, Reg. 1 eczny, Reg. No. 47715, Michael A. Va ognition No. L0565, Jianke Kang, Li and to transact all business in the U. action-in-part, reissue or re-examination ney or agent, and to receive all patents Customer No. 088439 | : Robert F. Bushnell, Reg. No No. 44437, George N. Steven in Lente, Reg. No. 52,314, Xi mited Recognition No. 1.082 S. Patent & Trademark Offic on application, with full powe |

2 Inventors are being named on separately numbered sheets attached hereto.

PATENT REEL: 033305 FRAME: 0811

COMBINED ASSIGNMENT AND DECLARATION (Three of Three)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| EGAL NAME OF INVENTOR(s) | | Date Signed (Optional) | Witness(es) | |
|--------------------------|--------------------|------------------------|-------------|--|
| 1) | Do-Youb Kim (Seal) | 19-Jung-2014 | | |
| ?) | An-Su (see (sea) | 19-June-2014 | - | |

PATENT REEL: 033305 FRAME: 0812

RECORDED: 07/14/2014