

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4542993

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | SHINTACK KANG | 08/04/2017 |
| | DUCHAN CHO | 08/04/2017 |
| RECEIVING PARTY DATA | | |
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| City: | YONGIN-SI, GYEONGGI-DO | |
| State/Country: | KOREA, REPUBLIC OF | |
| Postal Code: | 17113 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Application Number: | 15672796 |
| CORRESPONDENCE DATA | | |
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| NAME OF SUBMITTER: | JAMES J. MERRICK | |
| SIGNATURE: | /James J. Merrick/ | |
| DATE SIGNED: | 08/09/2017 | |
| Total Attachments: 2 | | |
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DECLARATION AND ASSIGNMENT

Title of Invention: [GATE DRIVER OF DISPLAY DEVICE]

As a below named inventors, we hereby declare that:

This declaration is directed to:

[X] the attached application (Attorney Docket Number WTP0082US), or

[] United States application or PCT international application number
_____ filed on _____.

The above-identified application was made or authorized to be made by us.

We believe that we are the original inventors or original joint inventors of a claimed invention in the application.

We have reviewed and understand the contents of the application, including the claims.

We are aware of the duty to disclose to the United States Patent and Trademark Office all information known to us to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, **SAMSUNG DISPLAY CO., LTD.**, a limited liability company/corporation established in the State/Country of Republic of Korea, with an office at or having a place of business at **1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Republic of Korea** (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire

worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment.

We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

The undersigned hereby grant(s) the law firm of Cantor Colburn LLP the power to insert on this Declaration and 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.

Date: 2017. 8. 4

Shintack Kang
Shintack KANG

Date: 2017. 8. 4

Duchan CHO
Duchan CHO