504045788 10/11/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4092449

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| YONG-HEE PARK | 10/07/2016 |
| NOH JOONG PARK | 10/06/2016 |
| HYEON SUK GUAK | 10/07/2016 |
| KI HUN KIM | 10/07/2016 |
| TAE YONG KIM | 10/06/2016 |
| HYE JIN LEE | 10/07/2016 |
| BYUNG JUN JEON | 10/06/2016 |
| YOUNG IL JUNG | 10/07/2016 |

RECEIVING PARTY DATA

| Name: | SAMSUNG DISPLAY CO., LTD. |
|-----------------|---------------------------|
| Street Address: | 1, SAMSUNG-RO, GIHEUNG-GU |
| City: | YONGIN-SI, GYEONGGI-DO |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 17113 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15290868 |

CORRESPONDENCE DATA

Fax Number: (516)692-8889

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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

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Email: mail@chauiplaw.com

Correspondent Name: F. CHAU & ASSOCIATES, LLC

Address Line 1: 130 WOODBURY ROAD

Address Line 4: WOODBURY, NEW YORK 11797

| ATTORNEY DOCKET NUMBER: | 8071-782 (OPP20163081US) |
|-------------------------|--------------------------|
| NAME OF SUBMITTER: | JOSEPH B. GROSS |
| SIGNATURE: | /JOSEPH B. GROSS/ |

PATENT 504045788 REEL: 040317 FRAME: 0156

| ATE SIGNED: | 10/11/2016 |
|-------------------------------|--|
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| otal Attachments: 12 | |
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COMBINED DECLARATION (37 CFR 51.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

The continued access wedges that this document is being used both as an assignment of the oversion and as the decisiation (37 CFR LB3) for a Utility or Design Application.

APERCAL DISCORDERS and thereins her referred to collectively as Assignor, has invented

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WHITEAS, AS A Delick named investor(s). Twell belong declare that

Section I. Declaration

This declaration is directed to:

| - | The attached U.S. non-provisional par | est application, or | |
|---|--|---------------------------|---------------------------|
| | U.S. non-provisional patent application | number | Silved Cor |
| | PCT international parent application in | moer | Medion |
| | entified application was made or author | ced to be made by me (| |
| | that lam (we are) the original inventor intentor | (Ong nal joint inventors) | of a claimed invention in |
| | , acknowledge that any willful fake st C. 1001 by one or improcument of not i | | |
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COMPACED DECLARATION OF CHEER POR EXPERIENT PARENT APPRICATION AND ASSIGNMENT FORM Page 1 of 6

PANELWAY

I heroby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56

Section II. Assignment

In consideration of the sum of the Dollar ST DOLland other yood and valuable consideration paid to each of the underspied, the underspied hereby selficions assembly to

Samsung Display Co., Ltd.

having an ecdress of **1. Samsung ro. Gibeung gu, Yongin si, Gyeonggi-do, 17113, Kores** there notice of the grant of the United States us. Defined in 35 USC § 100, in the invention described in the application identified in Section Lot this Sociences.

Avoignor hereby confirms any prior assignment to Assigneets), and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee (c) and its successors in interest, the full and exclusive next, this and interest in the United States of America and throughout the world, including the right to claim priority under the lows of the United States, the Paris Convention, and any forcign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations in part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Latters Patent, utility model, or other similar rights which may be granted thereon. including missure, mexaminations and extensions thereof, and all copyright rights throughout the word in the Africa of application and the subject matter disclosed between these materials and interest to be held and enjoyed by Assigneets) to the full end of the term for which the Letters Patent. will be made, or other similar rights, are granted and any extensions thereof as fully and entirely of The correspond have been held by Assente had this assentiant and sale not been made, and the right to sup for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright

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Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee(s), and requests that any official of any country or countries fureign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee(s).

To continuously hereby grantly, the law form of **F. Chao & Associates, CLC** the power to inject 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 decument.

| CONTRACTOR | Full Name |
|------------|---------------|
| | Yong Hee PARK |
| | |
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| 50.841.8 | DATE |
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COMBINED DECLARATION OF CREEDS FOR UTILITY PATENT APPLICATION AND ASSIGNMENT PORTS.

Page 3 of 6

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| LEGAL BANKS OF | | Full Name | |
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SERVICE CONTRACTOR OF THE SERVICE CONTRACTOR

Appropriate No. 1072-2022

PANELWIA

| | Full Name |
|--|----------------------------------|
| | Tae Yong KIM |
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| SIGNATURE | DATE |
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| | |
| ECA NAME OF | Full Name |
| SWTH NVENTOR/ASSIGNOR | Hye In LEE |
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| LEGAL NAME OF | Full Name |
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| LEGAL NAME OF | Full Name |
| LEGAL NAME OF | Full Name Byung Jun JEON |
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NACES NO. 1837 STREET, SELECTION

Administrative STATE

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| CALMAN OF | Full Name |
|------------------|---------------|
| NVENTOR/ASSIGNOR | Young II IUNG |
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| SC-NATION | DATE |
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COMBINED DECLARATION (37 CPR LASEFORCETILITY PATENT APPLICATION AND ASSOCIATION FORM) Page 6 of 6

PATENT

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM¹

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

TITLE: MULTI-OPTIC VISION DEVICE UTILIZING AREA-SCANNING FOR DETECTING DEFECTS

for which Assignor is about to make or has made United States or International application for patent.

WHEREAS, as a below named inventor(s), I/(we) hereby declare that:

Section I. Declaration

This declaration is directed to:

| | | The attached U.S. non-provisional patent application, or | |
|--------|----------|---|----------------------|
| | | U.S. non-provisional patent application number, or | , filed on |
| | | PCT international patent application number | filed on |
| Γhe ab | ove-ide | entified application was made or authorized to be made by me (us). | |
| | | that I am (we are) the original inventor (original joint inventors) of a ntified application. | claimed invention in |
| • • | | acknowledge that any willful false statement made in this decl C. 1001 by fine or imprisonment of not more than five (5) years, or b | • |
| I This | form req | uires the use of an Application Data Sheet. | |
| | | | |

SDC Ref No. LO-201607-169-1-US0

Attorney Ref No. 8071-782/jbg

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 1 of 6

PANKOREA

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Display Co., Ltd.

having an address at **1**, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea (hereinafter designated as the Assignee(s)), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee(s), and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee(s) and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee(s) to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

SDC Ref No. LO-201607-169-1-US0 Attorney Ref No. 8071-782/jbg

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 2 of 6

PANKOREA

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee(s) without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee(s), and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee(s).

The undersigned hereby grant(s) the law firm of **F.Chau & Associates**, **LLC** 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.

Section III. Inventor(s)/Assignor(s) Signature(s)

| LEGAL NAME OF FIRST INVENTOR/ASSIGNOR | Full Name | | |
|---|-----------|---------------|--|
| | | Yong-Hee PARK | |
| | | | |
| | | | |
| SIGNATURE | | DATE | |
| | | | |

SDC Ref No. LO-201607-169-1-USO Attorney Ref No. 8071-782/jbg

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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| LEGAL NAME OF SECOND | Full Name | | | |
|-----------------------------|---------------------|--|--|--|
| INVENTOR/ASSIGNOR | Noh Joong PARK | | | |
| SIGNATURE≤ | ATE October 6, 2016 | | | |
| LEGAL NAME OF | Full Name | | | |
| THIRD INVENTOR/ASSIGNOR | Hyeon Suk GUAK | | | |
| SIGNATURE | DATE | | | |
| LEGAL NAME OF | Fuli Name | | | |
| FOURTH INVENTOR/ASSIGNOR | Ki Hun KIM | | | |
| SIGNATURE | DATE | | | |

SDC Ref No. 1.0-201607-169-1-US0

Attorney Ref No. 8071-782/jbg

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 4 of 6

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| LEGAL NAME OF | Full Name | | |
|----------------------------|-----------------------------|--|--|
| FIFTH INVENTOR/ASSIGNOR | Tae Yong KIM | | |
| SIGNATURE | DATE October 6, 2016 | | |
| LEGAL NAME OF | Full Name | | |
| SIXTH INVENTOR/ASSIGNOR | Hye Jin LEE | | |
| SIGNATURE | DATE | | |
| LEGAL NAME OF SEVENTH | Full Name Byung Jun JEON | | |
| INVENTOR/ASSIGNOR | | | |
| SIGNATURE | DATE October 6, 2016 | | |

SDC Ref No. 1.Q-201607-169-1-USQ

Attorney Ref No. 8071-782/jbg

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 5 of 6

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| LEGAL NAME OF EITGHTH | Full Name Young II JUNG | | |
|-----------------------|-------------------------|------|--|
| INVENTOR/ASSIGNOR | | | |
| | | | |
| | | DATE | |
| SIGNATURE | | | |

SDC Ref No. LO-201607-169-1-US0

Attorney Ref No. 8071-782/jbg

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 6 of 6

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RECORDED: 10/11/2016