

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HO LIM | 08/23/2018 |
| SHIN WOONG KANG | 08/23/2018 |
| KEUN CHAN OH | 08/23/2018 |
| JAE JIN LYU | 08/23/2018 |
| ABOOZAR NASROLLAHI | 08/23/2018 |
| VINEET KUMAR | 08/23/2018 |
| 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 |
| Name: | INDUSTRIAL COOPERATION FOUNDATION CHONBUK NATIONAL UNIVERSITY |
| Street Address: | 567, BAEKJE-DAERO, DEOKJIN-GU |
| City: | JEONJU-SI, JEOLLABUK-DO |
| State/Country: | KOREA, REPUBLIC OF |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16143045 |
| CORRESPONDENCE DATA | |
| Fax Number: | (626)577-8800 |
| <i>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.</i> | |
| Phone: | 626-795-9900 |
| Email: | pto@lrrc.com |
| Correspondent Name: | LEWIS ROCA ROTHGERBER CHRISTIE LLP |
| Address Line 1: | PO BOX 29001 |
| Address Line 4: | GLENDALE, CALIFORNIA 91209 |
| ATTORNEY DOCKET NUMBER: | 152168/JEJ/FMO |
| NAME OF SUBMITTER: | FRANCES M. O'BRIEN |

| | |
|--|----------------------|
| SIGNATURE: | /Frances M. O'Brien/ |
| DATE SIGNED: | 10/08/2018 |
| Total Attachments: 3 source=152168_Decl-Assign#page1.tif source=152168_Decl-Assign#page2.tif source=152168_Decl-Assign#page3.tif | |

INVENTOR'S DECLARATION AND ASSIGNMENT
FOR PATENT APPLICATION

PATENT

Title of Invention: LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF
MANUFACTURING THE SAME

Docket No.: 152168

Application No. _____

INVENTOR'S DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application unless the following is checked:

_____ United States Application or PCT International Application Number _____
filed on _____.

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

I believe that I am the original inventor or an original joint inventor of a claimed invention in the
above-identified application.

I have reviewed and understand the contents of the above-identified application, including the
claims.

I acknowledge the duty to disclose information which is material to patentability as defined in
37 C.F.R. § 1.56, including for continuation-in-part applications, material information which
became available between the filing date of the prior application and the national or PCT
international filing date of the continuation-in-part application.

I 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.

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby
acknowledged, the undersigned,

(1) Ho Lim, Shin Woong Kang, Keun Chan Oh, Jae Jin Lyu, Aboozar Nasrollahi, and Vineet
Kumar

HEREBY SELL(S), ASSIGN(S) AND TRANSFER(S) TO

(2) SAMSUNG DISPLAY CO. LTD. AND INDUSTRIAL COOPERATION FOUNDATION
CHONBUK NATIONAL UNIVERSITY; JOINTLY

having a place of business at

SDC Ref No. LO-201708-129-1-US0

KASAN Ref No. SMP170280US

INVENTOR'S DECLARATION AND ASSIGNMENT
FOR PATENT APPLICATION

Docket No.: 152168

Application No.: _____

(3) 1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; and 567, Baekje-daero, Deokjin-gu, Jeonju-si, Jeollabuk-do, Republic of Korea; Respectively

(hereinafter called "ASSIGNEE") the entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent entitled

(4) LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF MANUFACTURING THE SAME

which application was executed on even date herewith or was

(a) executed on (5a): _____

(b) filed on (5b): _____

Application No.: _____

LEWIS ROCA ROTHGERBER CHRISTIE
LLP, P.O. Box 29001, Glendale, CA 91209-
9001 is hereby authorized to insert in (b) the
specified data, when known.

including any and all United States Patents which may be granted on said application, and any and all extensions, divisions, reissues, substitutes, renewals or continuations of said application and patents, and the right to all benefits under all international conventions for the protection of industrial property and applications for said improvements.

It is hereby authorized and requested that the Commissioner of Patents issue any and all of said Letters Patent, when granted, to said ASSIGNEE, its assigns or its successors in interest or its designee.

Upon said consideration, it is further agreed that, when requested, without charge to but at the expense of said ASSIGNEE, the undersigned will execute all divisional, continuing, substitute, renewal, and reissue patent applications; execute all rightful other papers; and generally do everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining patent protection as provided herein.

Ho Lim

Legal Name of Inventor

Date

23th - 08 - 2018

Signature

SDC Ref No. LO-201708-129-1-US0

KASAN Ref No. SMP170280US

INVENTOR'S DECLARATION AND ASSIGNMENT
FOR PATENT APPLICATION

Docket No.: 152168

Application No.: _____

Shin Woong Kang
Legal Name of Inventor

Date
23th - 08 - 2018

Shin Woong Kang
Signature

Keun Chan Oh
Legal Name of Inventor

Date
23th 08 - - 2018

Signature

Jae Jin Lyu
Legal Name of Inventor

Date

Signature

Aboozar Nasrollahi
Legal Name of Inventor

Date

Aboozar Nasrollahi
Signature

23th - August - 2018

Vineet Kumar
Legal Name of Inventor

Date

Vineet Kumar
Signature

23th - August - 2018

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