

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yoo-Ra Kim</td> <td>05/02/2013</td> </tr> <tr> <td>Hyun-Gu Kang</td> <td>05/02/2013</td> </tr> <tr> <td>Jae-Moon Kim</td> <td>05/02/2013</td> </tr> <tr> <td>Min-Hyung Lee</td> <td>05/02/2013</td> </tr> </tbody> </table>		Name	Execution Date	Yoo-Ra Kim	05/02/2013	Hyun-Gu Kang	05/02/2013	Jae-Moon Kim	05/02/2013	Min-Hyung Lee	05/02/2013
Name	Execution Date										
Yoo-Ra Kim	05/02/2013										
Hyun-Gu Kang	05/02/2013										
Jae-Moon Kim	05/02/2013										
Min-Hyung Lee	05/02/2013										
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											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>29454296</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	29454296						
Property Type	Number										
Application Number:	29454296										
CORRESPONDENCE DATA											
Fax Number:	6265778800										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	626-795-9900										
Email:	pto@cph.com										
Correspondent Name:	CHRISTIE, PARKER & HALE, LLP										
Address Line 1:	PO BOX 29001										
Address Line 4:	GLENDALE, CALIFORNIA 91209										
ATTORNEY DOCKET NUMBER:	72820/L550/PCH-OK										
NAME OF SUBMITTER:	Olga Katsnelson										
Signature:	/Olga Katsnelson/										
Date:	05/09/2013										
Total Attachments: 3 source=72820_Assignment#page1.tif source=72820_Assignment#page2.tif source=72820_Assignment#page3.tif											

OP \$40.00 29454296

---

---

**INVENTOR'S DECLARATION AND ASSIGNMENT  
FOR PATENT APPLICATION**

PATENT

Title of Invention: TUMBLER

Docket No.: 72820/L550

---

---

**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) Yoo-Ra Kim, Hyun-Gu Kang, Jae-Moon Kim, and Min-Hyung Lee

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

(2) SAMSUNG DISPLAY CO., LTD.

having a place of business at

(3) 95, Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do, Korea

(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) TUMBLER

---

---

**INVENTOR'S DECLARATION AND ASSIGNMENT  
FOR PATENT APPLICATION**

---

---

**Docket No. 72820/L550**

---

---

which application executed on even date  
herewith or was

(a) executed on (5a): \_\_\_\_\_;  
(b) filed on (5b): May 8, 2013;  
Application No.: 29/454,296;

(CHRISTIE, PARKER & HALE, 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.

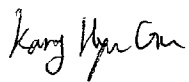
Yoo-Ra Kim  
Legal Name of Inventor

2 May 2013  
Date

  
Signature

Hyun-Gu Kang  
Legal Name of Inventor

2 May 2013  
Date

  
Signature

---

---

**INVENTOR'S DECLARATION AND ASSIGNMENT  
FOR PATENT APPLICATION**

---

---

**Docket No. 72820/L550**

---

---

Jae-Moon Kim  
Legal Name of Inventor

2 May 2013  
Date

(Kim Jae moon  
Signature

Min-Hyung Lee  
Legal Name of Inventor

2 May 2013  
Date

Min Hyung Lee  
Signature

**WITNESSES:**

\_\_\_\_\_  
\_\_\_\_\_

AMPAS1231752.1-\*-04/23/13 10:29 AM