

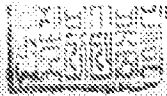
## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4845716

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                      |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                          |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                     |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>               |
| LG ELECTRONICS INC.                                                                                                                                                                             | 04/09/2015                          |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                     |
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| <b>State/Country:</b>                                                                                                                                                                           | WASHINGTON                          |
| <b>Postal Code:</b>                                                                                                                                                                             | 98052                               |
| <b>PROPERTY NUMBERS Total: 11</b>                                                                                                                                                               |                                     |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                       |
| Patent Number:                                                                                                                                                                                  | 8872735                             |
| Patent Number:                                                                                                                                                                                  | 7301556                             |
| Patent Number:                                                                                                                                                                                  | 8098274                             |
| Patent Number:                                                                                                                                                                                  | 7603143                             |
| Patent Number:                                                                                                                                                                                  | 7899499                             |
| Patent Number:                                                                                                                                                                                  | 7742022                             |
| Patent Number:                                                                                                                                                                                  | 7714811                             |
| Patent Number:                                                                                                                                                                                  | 7623123                             |
| Patent Number:                                                                                                                                                                                  | 7521718                             |
| Patent Number:                                                                                                                                                                                  | 7211945                             |
| Patent Number:                                                                                                                                                                                  | 6265682                             |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                     |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | HEIDI WHITTINGHAM                        |
| <b>SIGNATURE:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IPR/ES/Microsoft Complex Cases/LG/AG/11P |
| <b>DATE SIGNED:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 03/01/2018                               |
| <b>Total Attachments: 13</b><br>source=LG Notarized Assignment incl Assignee notarized signature#page1.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page2.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page3.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page4.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page5.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page6.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page7.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page8.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page9.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page10.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page11.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page12.tif<br>source=LG Notarized Assignment incl Assignee notarized signature#page13.tif |                                          |



서울 서초구 강남대로 439  
[별지 제41호서식]

공증  
인가 동화법무법인

(전화) 02-3481-0028  
(팩스) 02-3474-5920

Registered No. 2015 - 3011

# NOTARIAL CERTIFICATE

Dong Hwa Law Corporation

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210mm X 297mm  
보존용지(1종) 70g/m<sup>2</sup>

## Exhibit A

### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, LG Electronics Inc., a Korean corporation having a primary place of business at LG Twin Towers 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea 150-721 ("Assignor"), does hereby sell, assign, transfer and convey unto Microsoft Technology Licensing, LLC, having a primary place of business at One Microsoft Way, Redmond, WA 98052 ("Assignee") or its designees, all of Assignor's entire right, title and interest in and to (a) all patents and patent applications listed below; (b) all reissues, reexaminations, continuations, parents, continuations-in-part, divisionals and extensions (collectively "*Related Cases*") of such patents and patent applications; (c) patents or patent applications (i) to which any or all of the foregoing directly or indirectly claims priority, or (ii) for which any or all of the foregoing directly or indirectly forms a basis for priority; and (d) all Related Cases (whether pending, issued, abandoned or filed in the future) and foreign counterparts to any or all of the foregoing, including without limitation utility models design patents, certificates of invention and equivalent rights worldwide (collectively "*Patent Rights*");

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In addition, Assignor agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past, present and future infringement of the Patent Rights, (ii) the right to apply (or continue prosecution) in any and all countries of the world for patents, design patents, utility models, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding, and (iii) the rights, if any, to revive prosecution of any abandoned Patent Rights.

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF, Assignor has caused these presents to be signed by its duly appointed officer having full authority in the circumstances.

(Signatures on the next page.)

SIGNED for and on behalf of

**LG Electronics Inc.**

*Dohyun Jung*

DOHYUN JUNG PRESIDENT & CPO  
CTO-3



(Assignor)

By

*3 Jun*

(Signature)

on

*April 9, 2015*

(Date)

Hwi-Jae Cho, Director

(Print Name and Title)

서울 서초구 강남대로 439  
[별지 제43호서식]

공증  
인가 동화법무법인

(전화) 02-3481-0028  
(팩스) 02-3474-5920

등부 2015년 제 3011호

Registered No. 2015-3011

인 증

NOTARIAL CERTIFICATE

위 양도증-----에

Lee Hyeen-----

기재된 엘지전자 주식회사-----

대표이사 정 도 현-----

attorney-in-fact of

DOHYUN JUNG President& &CFO

of LG ELECTRONICS INC.,-----

의 대리인 이 해 은-----은

본 공증인의 면전에서 위 본인이----

appeared before me and admitted

기명날인 한 것임을 확인하였다.

said principal's subscription to

the attached EXHIBIT A ASSIGNMENT

2015년 04월 09일

This is hereby attested on this

이 사무소에서 위 인증한다.

9th day of Apr. 2015 at this office.

공증  
인가 동화법무법인

Dong Hwa Law Corporation  
Seoul Central

서울중앙지방법검찰청

District Prosecutor's Office

서울 서초구 강남대로 439

439, Gangnam-daero, Seocho-gu,  
Seoul, Korea

공증담당변호사

서 중 회

Signature of the Notary Public

JOONG HEE SEO

본 사무소는 인가번호 제3790호에 의거하여  
1987년 05월 01일 법무부 장관으로부터  
공증인 업무를 행할 것을 인가 받았다.

This office has been authorized by the  
Minister of Justice, the Republic of  
Korea, to act as Notary Public Since  
1, May. 1987 Under Law No.3790.

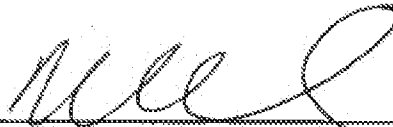
210mm X 297mm  
보안용지(1종) 70g/㎡

PATENT

REEL: 045474 FRAME: 0732

Exhibit A  
ASSIGNMENT

ACCEPTANCE

August 25, 2015 Signature of  for ASSIGNEE  
Date [Name, Title] Matthew Penarczyk, Vice President

Microsoft Technology Licensing, LLC (Assignee)

I certify that the above-identified ASSIGNEE, personally known to me to be the same person who signed the foregoing instrument, appeared before me this day in person, and acknowledged that the said instrument was signed and delivered as the free and voluntary act of the ASSIGNEE, for the uses and purposes therein set forth.

Given under my hand and seal this 8/25/15 (Date).

