PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3335109

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------------------|----------------|
| LUIS EDUARDO CABRERA-CORDON | 04/28/2015 |
| ROBERTO JAVIER BOJORQUEZ ALFARO | 04/29/2015 |
| HAE-JIN LEE | 04/29/2015 |
| JASON CHEN | 04/29/2015 |
| DOYOP KIM | 04/28/2015 |

RECEIVING PARTY DATA

| Name: | MICROSOFT TECHNOLOGY LICENSING |
|-----------------|--------------------------------|
| Street Address: | ONE MICROSOFT WAY |
| City: | REDMOND |
| State/Country: | WASHINGTON |
| Postal Code: | 98052 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14701489 |

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 425-707-9382

Email: stevensp@microsoft.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

| ATTORNEY DOCKET NUMBER: | 356962.01 |
|-------------------------|---------------|
| NAME OF SUBMITTER: | RICHARD CHI |
| SIGNATURE: | /Richard Chi/ |
| DATE SIGNED: | 04/30/2015 |

Total Attachments: 10

source=Assignments#page1.tif

PATENT REEL: 035542 FRAME: 0198

503288491

| Againmentally and tif |
|------------------------------|
| purce=Assignments#page2.tif |
| purce=Assignments#page3.tif |
| purce=Assignments#page4.tif |
| purce=Assignments#page5.tif |
| purce=Assignments#page6.tif |
| purce=Assignments#page7.tif |
| purce=Assignments#page8.tif |
| purce=Assignments#page9.tif |
| purce=Assignments#page10.tif |

PATENT REEL: 035542 FRAME: 0199

PATENT ASSIGNMENT MS Docket No.: 356962.01

| 1 LV | S EDVARDO CABO | <u>ZERA - CORDÓN</u> ("ASSIGN | IOR") am the original invento |
|--|---|--|---|
| | | | ") disclosed and/or claimed in |
| a patent appl which: | lication entitled " <u>Dl</u> e | GITAL SIGNAGE FOR IMMER | <u>RSIVE VIEWS</u> " ("APPLICATION") |
| | ASSIGNEE'S legal is LLC., One Microsof LEGAL REPRESENT on the following Office | ASSIGNOR hereby authorepresentative, Microsoft tway, Redmond, Washing ATIVES), to insert here and given Application e | Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed No |
| | No | and was given A by the following Office "; | Application |
| behalf of itse of acquiring, priority, in the derived there | If and its successor: the entire and exceeding the invention and the invention as contact the invention is the invention and the invention is the invention in the invention in the invention is the invention in the invention in the invention is the invention in | s and assigns ("ASSIGNEE") clusive rights, title and in he APPLICATION (and all o tinuing applications, in wh | limited liability company, or is entitled to, and is desirous terest, including the right of their applications and patents to or in part, in and for the PLICATION DERIVATIVES")); |
| to insert the | - | iling date, and Office into | EE'S LEGAL REPRESENTATIVES the following table for any |
| } | No. | Filing Date | Office |
| | | • | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| X | | £ | |

PATENT ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

MS Docket No.: 356962.01

| | PATENT A | SSIGNMENT | MS Docket No.: | 356962.01 |
|--|--|--|---|--|
| or an origina | l joint inventor of s | ("AS ubject matter ("INVENT GITAL SIGNAGE FOR IN | FION") disclosed and/o | or claimed ii |
| X | ASSIGNEE'S legal : LLC., One Microsof LEGAL REPRESENT on the following Office | ASSIGNOR hereby a representative, Microsoft Way, Redmond, Was ATIVES), to insert home and given Applicate | soft Technology Lice hington 98052 (ASSIC nere in parentheses ation No. | nsing, NEE'S (filed by) this |
| | No | and was giv by the following O | | |
| behalf of itse of acquiring, priority, in the derived there | If and its successors the entire and exceeding the invention and the invention and the invention is contact. | ensing, LLC, a Washin s and assigns ("ASSIGN clusive rights, title an he APPLICATION (and tinuing applications, i l all foreign countries | IEE"), is entitled to, and interest, including all other applications in whole or in part, in | d is desirous the right o and patents and for the |
| to insert the | · · | zes, and requests, AS: iling date, and Office they are known: | | |
| Application | | Filing Date | Office | |
| | | | | |

Page 1 of 2

PATENT ASSIGNMENT

| e _i |
|----------------|
| |
| |
| |
| |
| |

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

| p | |
|---|---------------------------------|
| A Commence of the Commence of | 04/29/2015 |
| Invento/s/Signature | Date |
| Roberto Javier Bujorquez Alfani | |
| Printed Name in English | Printed Name in Native Language |
| | (if other than English) |

MS Docket No.: 356962.01

PATENT ASSIGNMENT MS Docket No.: 356962.01 I _____ Hae-jin Lee _____ ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DIGITAL SIGNAGE FOR IMMERSIVE VIEWS" ("APPLICATION"), which: \boxtimes will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on _____ and given Application No. _____ by APPLICATION's Application No., filing date, and Office, when known; was filed on _____ and was given Application No ______ by the following Office "., Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")); ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known; Application No. Filing Date Office

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

| fly | April 29 2015 | |
|-------------------------|---|--|
| Inventor's Signature | Date | |
| Hae-jin Lee | 이혜진 | |
| Printed Name in English | Printed Name in Native Language (if other than English) | |

MS Docket No.: 356962.01

| | PATENT AS | SSIGNMENT | MS Docket No.: | 330902.01 |
|---|---|--|--|---|
| ı | Jason <u>C</u> | hen | _ ("ASSIGNOR") am | the original |
| inventor or a | n original joint inver a patent application | ntor of subject matter (" entitled " <u>DIGITAL SIG</u> | INVENTION) disc | osed and/or |
| | ASSIGNEE'S legal re LLC., One Microsoft LEGAL REPRESENTA on the following Office | SSIGNOR hereby authoresentative, Microsoft Way, Redmond, Washin ATIVES), to insert here and given Application No., filing date, | : Technology Lice gton 98052 (ASSIC : in parentheses n No. | nsing, GNEE'S (filed by _) this |
| | was filed on | and was given | Application | |
| | No | by the following Offic "; | e | |
| behalf of itse of acquiring priority, in t derived ther United State ASSIC to insert th | elf and its successors i, the entire and exc he INVENTION and the refrom, such as cont es, its territories, and GNOR hereby authori e Application No., f | ensing, LLC, a Washington and assigns ("ASSIGNEE clusive rights, title and the APPLICATION (and all inuing applications, in waste and requests, ASSIC cling date, and Office in the stars known: | interest, including other application whole or in part, i | nd is desirous |
| | N DERIVATIVES after | Filing Date | Office | |
| Application | I INO. | THIM DALE | | |
| | | | | *************************************** |
| | | | | |
| | | | | *************************************** |
| | | | | |
| | | | | |

Page 1 of 2

PATENT ASSIGNMENT

MS Docket No.: 356962.01

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

| *************************************** | | |
|--|---------------------------------|---|
| AND THE PROPERTY OF THE PROPER | 4/29/2015 | |
| Inventor's Signature | Date | 2 |
| Jason Chen | | |
| Printed Name in English | Printed Name in Native Language | |
| | (if other than English) | ` |

| | PATENT | ASSIGNMENT | MS Docket No. | : <u>356962.01</u> |
|--|---|---|--|--|
| | I joint inventor of | subject matter ("IN\ | ("ASSIGNOR") am the or /ENTION") disclosed and | l/or claimed in |
| a patent app which: | lication entitled " <u>[</u> | <u>)IGITAL SIGNAGE FC</u> | <u>)R IMMERSIVE VIEWS" ("A</u> | (PPLICATION'), |
| X | will be filed. | ASSIGNOR hereb | y authorizes, and re | equests, |
| | LLC., One Microson LEGAL REPRESEN on the following Off | oft Way, Redmond, VITATIVES), to inse and given Applice | icrosoft Technology Lic Washington 98052 (ASS rt here in parenthese plication No. g date, and Office, when | IGNEE'S s (filed by this |
| | was filed on | and wa | s given Application | |
| | | by the followin ; | g Office | |
| behalf of itse of acquiring, priority, in the derived there | elf and its successon, the entire and entire and entire and entire and endering and efrom, such as co | ors and assigns ("AS exclusive rights, titled the APPLICATION (ntinuing application | shington limited liability SIGNEE"), is entitled to, a e and interest, including and all other application ns, in whole or in part, ries ("APPLICATION DER | and is desirous ig the right of ns and patents in and for the |
| to insert the | Application No., | • | , ASSIGNEE'S LEGAL REP ffice into the following | |
| Application | | Filing Date | Office | |
| | <u>,</u> | | | |
| | | | | |
| | | | | |
| | | | | |

Page 1 of 2

| | \$2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2. | *************************************** |
|----|--|---|
| §° | <i>y</i> . | |
| ł | ; | |
| | \$ | |
| 4 | : | |
| j | • | |

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")):

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

| | 4/28/2015 |
|-------------------------|--|
| Inventor's Signature | Date |
| Doyop Kim | 김 돈 명 |
| Printed Name in English | Printed Name in Native Language (if other than English) |