503606893 12/11/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3653524

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| GUSTAF PETTERSSON | 03/05/2015 |
| JOHAN WINDMARK | 03/05/2015 |
| JENS MANSSON | 03/05/2015 |
| RADU BILCU | 03/05/2015 |
| JORG LINKE | 03/05/2015 |
| PASI SYVANEN | 03/06/2015 |

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14642348 |

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.

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Correspondent Name: GONZALEZ SAGGIO & HARLAN LLP

Address Line 1: 111 E. WISCONSIN AVENUE, SUITE 1000

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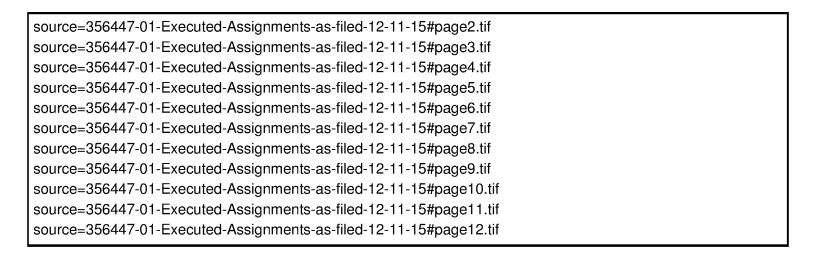
| ATTORNEY DOCKET NUMBER: | 356447.01 |
|-------------------------|---------------|
| NAME OF SUBMITTER: | NOEMI TOVAR |
| SIGNATURE: | /NOEMI TOVAR/ |
| DATE SIGNED: | 12/11/2015 |

Total Attachments: 12

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PATENT REEL: 037265 FRAME: 0910

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PATENT REEL: 037265 FRAME: 0911

| | PATENT | ASSIGNMENT | MS Docket No.: 356447.01 |
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| (| Gustaf | Pettersson | ("ASSIGNOR") am the |
| | | | matter ("INVENTION") disclosed |
| A CONTRACTOR OF STREET | red in a patent app PPLICATION"), whi | | ARRANGEMENT FOR IMAGE |
| | ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEG parentheses (filed No. 14/6) Office USPTC | ASSIGNOR hereby authorepresentative, Microsoft rosoft Way, Redmond, GAL REPRESENTATIVES), and on March 9, 2015 42,348 by by by bling date, and Office, whe | Technology Licensing, Washington 98052 to insert here in and given Application the following) this APPLICATION's |
| | was filed on | and was given | Anntingelan |
| Canada ; | | by the following Office | |
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| behalf of its desirous of a right of prior patents deriv | self and its succe acquiring, the enti rity, in the INVENTI ved therefrom, suc ited States, its | ssors and assigns ("ASSI) re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio | n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ins, in whole or in part, in and ign countries ("APPLICATION |
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| Application 1 | VO. | Filing Date | Office |
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Page 1 of 2

| PATENT ASSIGNMENT | MS Docket No.: 356447.01 |
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| Inventor's Signature | Date |
| Gustaf Pettersson | GUSTAF PETTERSION |
| Printed Name in English | Printed Name in Native Language |
| | (if other than English) |

| | PATENT | ASSIGNMENT | MS Docket No.: 356447.01 |
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| ! | Johan Windr | nark | _ ("ASSIGNOR") am the original |
| inventor or a claimed in | ın original joint in | ventor of subject matter (tion entitled "FILTER / | ""INVENTION") disclosed and/or ARRANGEMENT FOR IMAGE |
| | ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEG parentheses (file No. 14/6 Office USPTC | ASSIGNOR hereby autorepresentative, Microsoft crosoft Way, Redmond GAL REPRESENTATIVES), doin March 9, 2015 42,348 by Milling date, and Office, who | t Technology Licensing, I, Washington 98052 to insert here in and given Application the following _) this APPLICATION's |
| | No | and was given by the following Offic | |
| behalf of its desirous of a right of prior patents deriv | self and its succe acquiring, the enti rity, in the INVENT ved therefrom, suc ited States, its | ssors and assigns ("ASS re and exclusive rights, I ON and the APPLICATION h as continuing application | on limited liability company, on IGNEE"), is entitled to, and is title and interest, including the liand all other applications and ons, in whole or in part, in and eign countries ("APPLICATION |
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| Inventor's Signature | Date |
| Johan Windmark | JOHAN WINDMARK |
| Printed Name in English | Printed Name in Native Language |
| | (if other than English) |

| | PATENT | ASSIGNMENT | MS Docket No.: 356447.01 |
|--|--|---|---|
| | Jens Månss | on | ("ASSIGNOR") am the origina |
| | | | "INVENTION") disclosed and/o |
| claimed in | a patent applica | ition entitled "FILTER A | ARRANGEMENT FOR IMAGE |
| SENSOR" ("A | PPLICATION"), wh | ich: | |
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| ĭ∆i | will be filed. | ASSIGNOR hereby auti | norizes, and requests, |
| | ASSIGNEE'S legal | representative, Microsoft | t Technology Licensing, |
| | | crosoft Way, Redmond | - |
| | | GAL REPRESENTATIVES), | |
| | parentheses (file | d on March 9, 2015 | and given Application |
| | | 642,348 by | |
| | |) | |
| | Application No., f | iling date, and Office, whe | en known; |
| m | was filed on | and was given | Annlication |
| | | by the following Offic | |
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| | : <u> </u> | ** | |
| behalf of its desirous of a right of priori patents deriv | elf and its succe cquiring, the enti ity, in the INVENTI ed therefrom, suc ted States, its | ssors and assigns ("ASSI re and exclusive rights, to ON and the APPLICATION th as continuing application | in limited liability company, on GNEE"), is entitled to, and is itle and interest, including the (and all other applications and ons, in whole or in part, in and ign countries ("APPLICATION") |
| ASSIGN | IOR hereby | authorizes, and requ | uests, ASSIGNEE'S LEGAL |
| REPRESENTAT | IVES to insert t | he Application No., filin | g date, and Office into the |
| following tabl | e for any APPLICA | TION DERIVATIVES after ti | ney are known; |
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| Jen 11c | 5 March 2015 |
|-------------------------|---------------------------------|
| Inventor's Signature | Date |
| Jens Månsson | JENS MÄNSSON |
| Printed Name in English | Printed Name in Native Language |
| | (if other than English) |

| | PATENT | ASSIGNMENT | MS Docket No.: 356447.01 |
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| inventor or a claimed in | an original joint in | ventor of subject matter (tion entitled "FILTER A | ASSIGNOR") am the origina "INVENTION") disclosed and/or ARRANGEMENT FOR IMAGE |
| | ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEG parentheses (file No. 14/64 Office USPTO | ASSIGNOR hereby authorepresentative, Microsoft rosoft Way, Redmond GAL REPRESENTATIVES), and March 9, 2015 12,348 by Illing date, and Office, whe | t Technology Licensing, , Washington 98052 to insert here in and given Application the following) this APPLICATION's |
| | | and was given by the following Offic ;; | |
| behalf of its desirous of a right of prior patents deriv | self and its succe acquiring, the enti- ity, in the INVENTI red therefrom, suc- ited States, its | ssors and assigns ("ASSI re and exclusive rights, t ON and the APPLICATION h as continuing application | on limited liability company, on GNEE"), is entitled to, and is itle and interest, including the (and all other applications and ons, in whole or in part, in and ign countries ("APPLICATION |
| REPRESENTA" | | • | uests, ASSIGNEE'S LEGAL ig date, and Office into the hey are known: |
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| /\Z | 05.03.2015 |
| Inventor's Signature | Date |
| Radu Bilcu | RADU BILLY |
| Printed Name in English | Printed Name in Native Language (if other than English) |

| | PATENT | ASSIGNMENT | MS Docket No.: 356447.01 |
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| inventor or a claimed in | ın original joint in | ventor of subject matter (ation entitled "FILTER A | ASSIGNOR") am the origina "INVENTION") disclosed and/oi RRANGEMENT FOR IMAGE |
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| behalf of its desirous of a right of priori patents derive for the Unit DERIVATIVES" | elf and its succe cquiring, the enti ity, in the INVENTI ed therefrom, suc ted States, its | ssors and assigns ("ASSI re and exclusive rights, ti ION and the APPLICATION th as continuing application territories, and all fore | n limited liability company, on GNEE"), is entitled to, and is itle and interest, including the (and all other applications and ons, in whole or in part, in and ign countries ("APPLICATION |
| REPRESENTAT | IVES to insert t | · | uests, ASSIGNEE'S LEGAL g date, and Office into the nev are known: |
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| PATENT | ASSIGNMENT | MS Docket No.: 356447.01 |
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| /), /2. | 2015-03-05 | : |
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| Inventor's Signature | Date | |
| Jörg Linke | | : |
| Printed Name in English | Printed Name in Native Language | : |
| | (if other than English) | |

| | PATENT ASSIGNMENT | MS Docket No.: 356447.01 |
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| Ĭ. | Pasi Syvänen | ("ASSIGNOR") am the original |
| | an original joint inventor of subject ma | |
| claimed in | a patent application entitled "FILTE | ER ARRANGEMENT FOR IMAGE |
| SENSOR" (" | APPLICATION"), which: | |
| | _ | |
| | will be filed. ASSIGNOR hereby | authorizes, and requests, |
| | ASSIGNEE'S legal representative, Micr | osoft Technology Licensing, |
| e. | LLC., One Microsoft Way, Redn | nond, Washington 98052 |
| | (ASSIGNEE'S LEGAL REPRESENTATIV | |
| | parentheses (filed on March 9, 2015 | and given Application |
| | No. $\frac{14/642,348}{}$ by | the following |
| | Office USPTO | |
| | Application No., filing date, and Office | , when known; |
| inno Lect | was filed on and was g | oiven Application |
| | Noby the following | |
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| | | |
| Micro | osoft Technology Licensing, LLC, a Wash | ington limited liability company, on |
| behalf of it | tself and its successors and assigns (| "ASSIGNEE"), is entitled to, and is |
| desirous of | acquiring, the entire and exclusive righ | nts, title and interest, including the |
| right of pric | ority, in the INVENTION and the APPLICAT | FION (and all other applications and |
| patents der | ived therefrom, such as continuing appl | lcations, in whole or in part, in and |
| for the Ur | nited States, its territories, and all | foreign countries ("APPLICATION |
| DERIVATIVE | S")); | |
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| ASSIC | SNOR hereby authorizes, and | requests, ASSIGNEE'S LEGAL |
| REPRESENT/ | ATIVES to insert the Application No., | filing date, and Office into the |
| following ta | ble for any APPLICATION DERIVATIVES at | fter they are known; |
| Application | No. Filing Date | Office |
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| (1) J. | 6 March 2015 |
|-------------------------|--|
| Inventor's Signature | Date |
| Pasi Syvänen | PASI SYVÁNEN |
| Printed Name in English | Printed Name in Native Language (if other than English) |