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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4630115

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| GOOGLE INC. | 09/01/2016 |
| RECEIVING PARTY DATA | |
| Name: | X DEVELOPMENT LLC |
| Street Address: | 1600 AMPHITHEATRE PARKWAY |
| City: | MOUNTAIN VIEW |
| State/Country: | CALIFORNIA |
| Postal Code: | 94043 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15722937 |
| CORRESPONDENCE DATA | |
| Fax Number: | (312)913-0002 |
| <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: | 3129130001 |
| Email: | docketing@mbhb.com |
| Correspondent Name: | MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP |
| Address Line 1: | 300 SOUTH WACKER DRIVE |
| Address Line 4: | CHICAGO, ILLINOIS 60606 |
| ATTORNEY DOCKET NUMBER: | 15-356-CON |
| NAME OF SUBMITTER: | MICHAEL D. CLIFFORD |
| SIGNATURE: | /Michael D. Clifford/ |
| DATE SIGNED: | 10/06/2017 |
| Total Attachments: 39 | |
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ASSIGNMENT

WHEREAS, Google Inc., a corporation organized under the laws of the State of Delaware, having a place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043 ("ASSIGNOR"), is the owner of the entire right, title and interest in and to the patents and/or patent applications listed in the attached Exhibit A ("PATENTS AND PATENT APPLICATIONS").

WHEREAS, X DEVELOPMENT LLC, a limited liability company organized under the laws of the State of Delaware, having a place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043 ("ASSIGNEE"), desires to obtain the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS.

NOW, THEREFORE, in consideration of the good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby assigns and transfers to ASSIGNEE the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS, and all rights of enforcement thereto, including all rights to sue or recover for the past infringement thereof, and further including the right to file and prosecute in its own name, wherever so permitted by law, patent applications, including corresponding applications, based on any of the PATENTS AND PATENT APPLICATIONS, and to claim priority to any of the PATENTS AND PATENT APPLICATIONS pursuant to the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. ASSIGNEE may apply for and receive patents in its own name wherever so permitted by law and ASSIGNOR shall, when requested by ASSIGNEE, execute or cause to be executed all rightful oaths, assignments, and powers of attorney to ASSIGNEE or to agents and legal representatives of ASSIGNEE, and all other papers necessary and proper to carry out the intent and purpose of this Assignment, and ASSIGNOR further agrees:

a. to execute all papers necessary in connection with the PATENTS AND PATENT APPLICATIONS, and any continuing, divisional, reissue, reexamination or

other corresponding application thereof and to execute any separate Assignment in connection with such application as ASSIGNEE may deem necessary or expedient; and

b. to perform all affirmative acts which may be necessary to obtain a grant of a valid patent to ASSIGNEE on any of the PATENTS AND PATENT APPLICATIONS and on any continuation, division, reissue or reexamination of any of the PATENTS AND PATENT APPLICATIONS.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment to be executed by its duly authorized representative on this September 1, 2016.

Google Inc.

By: 

Title: *Deputy General Counsel,
Assistant Secretary*

Date: September 1, 2016

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Santa Clara

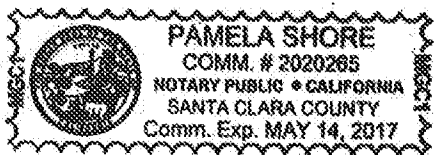
On 9/1/2016 before me, Pamela Shore, Notary Public

personally appeared Allen M. Lo Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Pamela Shore Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Assignment Document Date:

Number of Pages: Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name:

- Corporate Officer, Partner, Individual, Trustee, Other

Signer Is Representing:

Signer's Name:

- Corporate Officer, Partner, Individual, Trustee, Other

Signer Is Representing:

State of California
County of Santa Clara

On _____, before me personally appeared
_____, who proved to me on the basis of satisfactory
evidence to be the person whose name is subscribed to the within instrument and
acknowledged to me that he/she executed the same in his/her authorized capacity, and
that by his/her signature on the instrument the person, or the entity upon behalf of which
the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California
that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Seal)

Notary Public

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1169

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Santa Clara

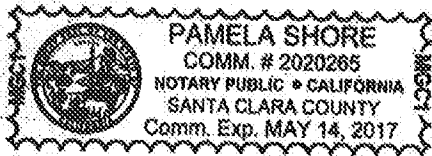
On 9/1/2016 before me, Pamela Shore, Notary Public

personally appeared Kenneth Yi Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Pamela Shore Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Assignment Document Date:
Number of Pages: Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

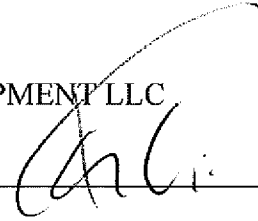
Signer's Name:
Corporate Officer - Title(s):
Partner - Limited General
Individual Attorney in Fact
Trustee Guardian or Conservator
Other:
Signer Is Representing:

Signer's Name:
Corporate Officer - Title(s):
Partner - Limited General
Individual Attorney in Fact
Trustee Guardian or Conservator
Other:
Signer Is Representing:

ASSIGNEE hereby accepts receipt of the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS.

X DEVELOPMENT LLC

By: _____



Title: *CEO, President, and Secretary*

Date: September 1, 2016

State of California

County of Santa Clara

On _____, before me personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Seal)

Notary Public

EXHIBIT A

| X-File | Jurisdiction | Application Number | Filing Date | Issue Date | Patent Number |
|--------------------|--------------|--------------------|-------------|------------|---------------|
| X-10042-00-US | US | 13/156,001 | 6/8/2011 | 5/3/2016 | 9,329,767 |
| X-10043-00-US | US | 13/156,015 | 6/8/2011 | | |
| X-10044-00-US | US | 13/156,182 | 6/8/2011 | 6/2/2015 | 9,046,999 |
| X-10044-00-US-DIV | US | 14/705,701 | 5/6/2015 | | |
| X-10046-00-US | US | 13/156,252 | 6/8/2011 | | |
| X-10048-00-US | US | 13/158,305 | 6/10/2011 | 8/19/2014 | 8,812,419 |
| X-10049-00-US | US | 13/292,071 | 11/8/2011 | | |
| X-10049-00-US-CON | US | 15/041,883 | 2/11/2016 | | |
| X-10657-00-US | US | 13/282,230 | 10/26/2011 | 5/8/2012 | 8,174,772 |
| X-10750-00-US | US | 13/213,738 | 8/19/2011 | | |
| X-10751-00-US | US | 13/213,731 | 8/19/2011 | 10/28/2014 | 8,875,041 |
| X-10752-00-US | US | 13/213,717 | 8/19/2011 | 7/21/2015 | 9,086,757 |
| X-10753-00-US | US | 13/213,705 | 8/19/2011 | 3/3/2015 | 8,972,055 |
| X-10753-00-US-CON | US | 14/602,700 | 1/22/2015 | | |
| X-10754-00-US | US | 13/213,678 | 8/19/2011 | 10/7/2014 | 8,854,485 |
| X-10755-00-US | US | 13/213,665 | 8/19/2011 | | |
| X-10756-00-US | US | 13/213,648 | 8/19/2011 | 9/16/2014 | 8,836,730 |
| X-10756-00-US-CON | US | 14/459,437 | 8/14/2014 | 5/12/2015 | 9,030,501 |
| X-10757-00-US | US | 13/213,635 | 8/19/2011 | 9/16/2014 | 8,838,276 |
| X-10757-00-US-CON | US | 14/453,809 | 8/7/2014 | 5/17/2016 | 9,344,623 |
| X-10999-00-PR | US | 61/569,776 | 12/12/2011 | | |
| X-10999-00-US | US | 13/346,666 | 1/9/2012 | 3/18/2014 | 8,676,893 |
| X-13389-00-US | US | 13/346,636 | 1/9/2012 | 5/6/2014 | 8,718,477 |
| X-13389-00-US-CON | US | 14/223,826 | 3/24/2014 | 8/2/2016 | 9,407,362 |
| X-13390-00-US | US | 13/346,620 | 1/9/2012 | 5/27/2014 | 8,733,697 |
| X-13390-00-US-CON | US | 14/286,070 | 5/23/2014 | 1/12/2016 | 9,233,746 |
| X-13391-00-US | US | 13/346,637 | 1/9/2012 | 9/2/2014 | 8,820,678 |
| X-13391-00-US-CON | US | 14/328,212 | 7/10/2014 | | |
| X-13391-00-US-DIV | US | 14/328,226 | 7/10/2014 | | |
| X-13392-00-US | US | 13/346,645 | 1/9/2012 | | |
| X-13393-00-US | US | 13/346,654 | 1/9/2012 | 1/21/2014 | 8,634,974 |
| X-13393-00-US-CON | US | 14/108,542 | 12/17/2013 | 4/5/2016 | 9,306,668 |
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| X-13394-00-US-CON3 | US | 15/013,850 | 2/2/2016 | | |
| X-13807-00-US | US | 13/625,788 | 9/24/2012 | | |
| X-13822-00-US | US | 13/625,803 | 9/24/2012 | | |

EXHIBIT A

| X-File | Jurisdiction | Application Number | Filing Date | Issue Date | Patent Number |
|--------------------|--------------|--------------------|-------------|------------|---------------|
| X-14524-00-US | US | 13/585,139 | 8/14/2012 | 10/21/2014 | 8,868,927 |
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| X-15243-00-US | US | 13/599,444 | 8/30/2012 | 5/5/2015 | 9,025,111 |
| X-15548-00-US | US | 13/612,218 | 9/12/2012 | 3/10/2015 | 8,977,393 |
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| X-16404-00-US | US | 13/657,363 | 10/22/2012 | 10/20/2015 | 9,164,596 |
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| X-16583-00-US | US | 13/730,222 | 12/28/2012 | 8/12/2014 | 8,804,228 |
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| X-16617-00-US-CON | US | 14/705,879 | 5/6/2015 | 9/6/2016 | 9,434,473 |
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| X-16618-00-US | US | 13/730,110 | 12/28/2012 | 12/9/2014 | 8,909,391 |
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| X-16619-00-US | US | 13/732,958 | 1/2/2013 | 2/3/2015 | 8,948,935 |
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| X-16620-00-US-CON | US | 14/562,324 | 12/5/2014 | 9/6/2016 | 9,436,181 |

EXHIBIT A

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| X-16620-00-US-CON2 | US | 15/082,205 | 3/28/2016 | | |
| X-16621-00-US | US | 13/730,189 | 12/28/2012 | 3/17/2015 | 8,983,682 |
| X-16622-00-US | US | 13/712,618 | 12/12/2012 | 10/6/2015 | 9,153,854 |
| X-16622-00-US-CON | US | 14/841,894 | 9/1/2015 | 4/5/2016 | 9,306,271 |
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| X-16624-00-US | US | 13/673,700 | 11/9/2012 | 3/3/2015 | 8,971,274 |
| X-16624-00-US-CON | US | 14/609,813 | 1/30/2015 | 3/29/2016 | 9,300,481 |
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| X-16625-00-US | US | 13/732,001 | 12/31/2012 | 8/19/2014 | 8,812,176 |
| X-16626-00-US | US | 13/729,219 | 12/28/2012 | 12/1/2015 | 9,203,148 |
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| X-16628-00-US | US | 13/618,365 | 9/14/2012 | 8/11/2015 | 9,106,336 |
| X-16628-00-US-CON | US | 14/795,875 | 7/9/2015 | | |
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| X-16680-00-US | US | 13/673,821 | 11/9/2012 | 9/16/2014 | 8,836,222 |
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| X-16883-00-US | US | 13/730,867 | 12/29/2012 | 4/21/2015 | 9,014,957 |
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| X-16883-01-US | US | 13/726,697 | 12/26/2012 | 9/30/2014 | 8,849,571 |
| X-16883-02-US | US | 13/732,546 | 1/2/2013 | | |
| X-16883-03-US | US | 13/771,361 | 2/20/2013 | 11/4/2014 | 8,880,326 |
| X-16883-04-US | US | 13/742,209 | 1/15/2013 | 7/15/2014 | 8,781,727 |
| X-16883-05-US | US | 13/727,688 | 12/27/2012 | 11/24/2015 | 9,195,938 |
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| X-16883-06-US | US | 13/727,157 | 12/26/2012 | | |
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| X-16883-08-US | US | 13/748,708 | 1/24/2013 | 10/28/2014 | 8,874,356 |
| X-16886-00-US | US | 13/727,708 | 12/27/2012 | 2/3/2015 | 8,948,927 |
| X-16887-00-US | US | 13/729,781 | 12/28/2012 | 10/14/2014 | 8,862,403 |
| X-16887-00-US-CON | US | 14/486,829 | 9/15/2014 | | |
| X-17851-00-US | US | 13/861,280 | 4/11/2013 | 8/25/2015 | 9,114,866 |
| X-17853-00-US | US | 13/862,434 | 4/14/2013 | 11/3/2015 | 9,174,738 |

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| X-File | Jurisdiction | Application Number | Filing Date | Issue Date | Patent Number |
|--------------------|--------------|--------------------|-------------|------------|---------------|
| X-17857-00-US | US | 13/861,451 | 4/12/2013 | 8/4/2015 | 9,097,361 |
| X-17882-00-US | US | 13/943,935 | 7/17/2013 | | |
| X-17886-00-US | US | 13/892,161 | 5/10/2013 | 7/28/2015 | 9,093,754 |
| X-17886-00-US-CON | US | 14/749,477 | 6/24/2015 | | |
| X-17887-00-US | US | 13/863,485 | 4/16/2013 | 3/8/2016 | 9,281,554 |
| X-17887-00-US-CON | US | 15/003,760 | 1/21/2016 | | |
| X-17888-00-PR | US | 61/831,539 | 6/5/2013 | | |
| X-17888-00-US | US | 14/250,274 | 4/10/2014 | | |
| X-17888-00-US-CON | US | 14/968,507 | 12/14/2015 | | |
| X-17888-01-PR | US | 61/831,553 | 6/5/2013 | | |
| X-17888-01-US | US | 14/297,529 | 6/5/2014 | | |
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