

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4763144

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
GOOGLE LLC		10/30/2017
RECEIVING PARTY DATA		
Name:	X DEVELOPMENT LLC	
Street Address:	1600 AMPHITHEATRE PARKWAY	
City:	MOUNTAIN VIEW	
State/Country:	CALIFORNIA	
Postal Code:	94043	
PROPERTY NUMBERS Total: 42		
Property Type	Number	
Application Number:	61718645	
Application Number:	14061668	
Application Number:	61718648	
Application Number:	61718650	
Application Number:	61718653	
Application Number:	61718654	
Application Number:	61718655	
Application Number:	61719871	
Application Number:	14061669	
Application Number:	61766398	
Application Number:	61813786	
Application Number:	14197536	
Application Number:	15243034	
Application Number:	61815146	
Application Number:	14246205	
Application Number:	61838698	
Application Number:	14191831	
PCT Number:	US2014043642	
Application Number:	15134963	
Application Number:	61838700	

PATENT

Property Type	Number
Application Number:	14308800
Application Number:	15591286
Application Number:	61838703
Application Number:	14313018
Application Number:	61838707
Application Number:	14311799
Application Number:	15242754
Application Number:	61838712
Application Number:	14311810
Application Number:	15372126
Application Number:	61838715
Application Number:	14309981
Application Number:	61838718
Application Number:	14312877
Application Number:	14878329
Application Number:	61838720
Application Number:	14312905
Application Number:	61838733
Application Number:	14309994
Application Number:	61838735
Application Number:	14191819
Application Number:	15341475

CORRESPONDENCE DATA

Fax Number: (312)913-0002

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: 312-913-0001

Email: mueller@mbhb.com

Correspondent Name: MCDONNELL BOEHNNEN HULBERT & BERGHOFF LLP

Address Line 1: 300 SOUTH WACKER DRIVE

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	REDWOOD
NAME OF SUBMITTER:	JOSEPH A. HERNDON
SIGNATURE:	/Joseph A. Herndon/
DATE SIGNED:	01/05/2018

Total Attachments: 7

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ASSIGNMENT

WHEREAS, GOOGLE 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 ("ASSIGNOR"), is the owner of the entire right, title and interest in and to the patents and/or patent applications listed in the attached Schedule 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.

ASSIGNOR retains no ownership rights in the patent applications, the patents, the inventions, and the rights transferred to ASSIGNEE hereunder.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment to be executed by its duly authorized representative on this 30 day of October, 2017.

GOOGLE LLC

By:


Jeremiah Chan

Title: Assistant Secretary

Date: October 30, 2017

State of California

County of _____

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

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

X DEVELOPMENT LLC

By: Jeffery Scott Heilesen

Title: Senior Patent Counsel

Date: 11/13/2017

State of California

County of _____

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

SCHEDULE A

Reference No.	Jurisdiction	Application Number	Filing Date	Issue Date	Patent Number
13-1306-PRO	US	61/718,645	10/25/12	-	-
13-1306-US	US	14/061,668	10/23/13	2/21/17	9,574,646
13-1307-PRO	US	61/718,648	10/25/12	-	-
13-1308-PRO	US	61/718,650	10/25/12	-	-
13-1309-PRO	US	61/718,653	10/25/12	-	-
13-1310-PRO	US	61/718,654	10/25/12	-	-
13-1311-PRO	US	61/718,655	10/25/12	-	-
13-1312-PRO	US	61/719,871	10/29/12	-	-
13-1312-US	US	14/061,669	10/23/13	-	-
13-1321-PRO	US	61/766,398	2/19/13	-	-
13-1322-PRO	US	61/813,786	4/19/13	-	-
13-1322	US	14/197,536	3/5/14	9/20/16	9,447,849
13-1322-US-DIV	US	15/243,034	8/22/16	-	-
13-1323-PRO	US	61/815,146	4/23/13	-	-
13-1323-US	US	14/246,205	4/7/14	11/29/16	9,509,195
13-1324-PRO	US	61/838,698	6/24/13	-	-
13-1324	US	14/191,831	2/27/14	5/24/16	9,346,160
13-1324-WO	WO	PCT/US2014/043642	6/23/14	-	-
13-1324-WO-CN	CN	201480034370.5	6/23/14	-	-
13-1324-WO-EP	EP	14742400.6	6/23/14	-	-
13-1324-WO-JP	JP	2016-521886	6/23/14	-	-
13-1324-WO-KR	KR	10-2015-7036316	6/23/14	-	-
13-1324-US-CON	US	15/134,963	4/21/16	-	-
13-1325-PRO	US	61/838,700	6/24/13	-	-
13-1325	US	14/308,800	6/19/14	-	-
13-1325-CON	US	15/591,286	5/10/17	-	-
13-1326-PRO	US	61/838,703	6/24/13	-	-
13-1326-US	US	14/313,018	6/24/14	11/29/16	9,505,136
13-1327-PRO	US	61/838,707	6/24/13	-	-
13-1327	US	14/311,799	6/23/14	10/11/16	9,465,384
13-1327-CON	US	15/242,754	8/22/16	-	-
13-1328-PRO	US	61/838,712	6/24/13	-	-
13-1328	US	14/311,810	6/23/14	2/7/17	9,561,590
13-1328-CON	US	15/372,126	12/7/16	-	-
13-1329-PRO	US	61/838,715	6/24/13	-	-
13-1329	US	14/309,981	6/20/14	12/8/15	9,205,560
13-1330-PRO	US	61/838,718	6/24/13	-	-
13-1330	US	14/312,877	6/24/14	11/17/15	9,186,795
13-1330-US-CON	US	14/878,329	10/8/2015	5/24/16	9,346,164
13-1331-PRO	US	61/838,720	6/24/13	-	-
13-1331	US	14/312,905	6/24/14	-	-

13-1332-PRO	US	61/838,733	6/24/13	-	-
13-1332	US	14/309,994	6/20/14	12/8/15	9,205,556
13-1333-PRO	US	61/838,735	6/24/13	-	-
13-1333	US	14/191,819	2/27/14	-	-
13-1333-US-DIV	US	15/341,475	11/2/16	-	-

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

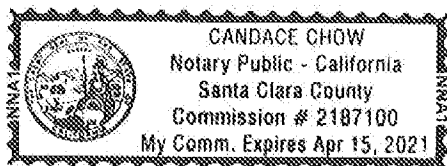
CIVIL CODE § 1189

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 October 30, 2017 before me, Candace Chow, Notary Public
Date Here Insert Name and Title of the Officer
personally appeared Jeremiah Chan
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 [Signature]
Signature of Notary Public

Place Notary Seal and/or Stamp Above

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: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____ Signer's Name: _____

☐ Corporate Officer -- Title(s): _____ ☐ Corporate Officer -- Title(s): _____

☐ Partner -- ☐ Limited ☐ General ☐ Partner -- ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact ☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian of Conservator ☐ Trustee ☐ Guardian of Conservator

☐ Other: _____ ☐ Other: _____

Signer is Representing: _____ Signer is Representing: _____

ACKNOWLEDGMENT

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.

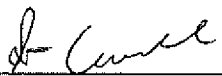
State of California
County of Santa Clara

On Nov 13, 2017 before me, Scott Crowell, Notary Public
(insert name and title of the officer)

personally appeared Jeffery Scott Heilesen,
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  (Seal)

