

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4712381

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
GOOGLE LLC		10/30/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	X DEVELOPMENT LLC	
<b>Street Address:</b>	1600 AMPHITHEATRE PARKWAY	
<b>City:</b>	MOUNTAIN VIEW	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	94043	
<b>PROPERTY NUMBERS Total: 10</b>		
<b>Property Type</b>	<b>Number</b>	
Application Number:	61445317	
Application Number:	61445320	
Application Number:	61445321	
Application Number:	61445323	
Application Number:	61445325	
Application Number:	61445327	
Application Number:	61838508	
Application Number:	14292979	
Application Number:	61838625	
Application Number:	14292973	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(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>		
<b>Phone:</b>	312-913-0001	
<b>Email:</b>	mueller@mbhb.com	
<b>Correspondent Name:</b>	MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP	
<b>Address Line 1:</b>	300 SOUTH WACKER DRIVE	
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60606	
<b>NAME OF SUBMITTER:</b>	MICHAEL KRASNIANSKY	

<b>SIGNATURE:</b>	/Michael Krasniansky/
<b>DATE SIGNED:</b>	11/30/2017
<b>Total Attachments: 5</b> source=GoogleToXDevelopmentLLC - Signed - 13NOV2017 - Meka#page1.tif source=GoogleToXDevelopmentLLC - Signed - 13NOV2017 - Meka#page2.tif source=GoogleToXDevelopmentLLC - Signed - 13NOV2017 - Meka#page3.tif source=GoogleToXDevelopmentLLC - Signed - 13NOV2017 - Meka#page4.tif source=GoogleToXDevelopmentLLC - Signed - 13NOV2017 - Meka#page5.tif	

## 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

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

## SCHEDULE A

Reference No.	Jurisdiction	Application Number	Filing Date	Issue Date	Patent Number
14-192-PRO	US	61/445,317	2/22/11	-	-
14-193-PRO	US	61/445,320	2/22/11	-	-
14-194-PRO	US	61/445,321	2/22/11	-	-
14-195-PRO	US	61/445,323	2/22/11	-	-
14-196-PRO	US	61/445,325	2/22/11	-	-
14-197-PRO	US	61/445,327	2/22/11	-	-
14-151-PRO	US	61/838,508	6/24/13	-	-
14-151-US	US	14/292,979	6/2/14	-	-
14-150-PRO	US	61/838,625	6/24/13	-	-
14-150-US	US	14/292,973	6/2/14	1/19/16	9,239,100

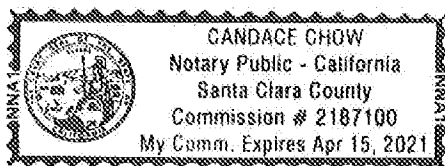
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

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.

Place Notary Seal and/or Stamp Above

Signature [Signature]  
Signature of Notary Public

**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 Heileson  
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)

