

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5471710

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GOOGLE INC.	09/29/2017
RECEIVING PARTY DATA	
Name:	Google LLC
Street Address:	1600 Amphitheatre Parkway
City:	Mountain View
State/Country:	CALIFORNIA
Postal Code:	94043
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16284532
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<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:	(202) 626-7780
Email:	apsi@fr.com, lswanson@fr.com
Correspondent Name:	SARAH HARRISON-SCHMIDT
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	16113-6897002
NAME OF SUBMITTER:	LISA SWANSON
SIGNATURE:	/Lisa Swanson/
DATE SIGNED:	04/12/2019
Total Attachments: 58	
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT4622442

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	CHANGE OF NAME
CONVEYING PARTY DATA	
Name	Execution Date
GOOGLE INC.	09/29/2017
RECEIVING PARTY DATA	
Name:	GOOGLE LLC
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043
PROPERTY NUMBERS Total: 2000	
Property Type	Number
Patent Number:	9203600
Patent Number:	9203476
Patent Number:	9203252
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Property Type	Number
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Patent Number:	9113202
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Property Type	Number
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Patent Number:	9092390
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Patent Number:	9087297
Patent Number:	9087271
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Patent Number:	9087154
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Patent Number:	9087131

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Patent Number:	9087124
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Patent Number:	9083873
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Patent Number:	9076166
Patent Number:	9076163
Patent Number:	9076158
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Patent Number:	9076076
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Patent Number:	9075979
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Patent Number:	9075862
Patent Number:	9075816
Patent Number:	9075792
Patent Number:	9075778
Patent Number:	9075761
Patent Number:	9075693
Patent Number:	9075637
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Patent Number:	9071441
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Patent Number:	9069866
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Patent Number:	9069776
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Patent Number:	9066122
Patent Number:	9066017
Patent Number:	9066009

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Patent Number:	9065894
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Patent Number:	9065859
Patent Number:	9065836
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Patent Number:	9065727
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Patent Number:	9064264
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Patent Number:	9063645
Patent Number:	9063641
Patent Number:	9063638
Patent Number:	9063611
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Patent Number:	9060320

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Patent Number:	9060059
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Patent Number:	9058684
Patent Number:	9058613
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Patent Number:	9058538
Patent Number:	9058483
Patent Number:	9058480
Patent Number:	9058478
Patent Number:	9058423
Patent Number:	9058415
Patent Number:	9058392
Patent Number:	9058389
Patent Number:	9058377
Patent Number:	9058364
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Patent Number:	9058329
Patent Number:	9058251
Patent Number:	9058194
Patent Number:	9058193
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Patent Number:	9058096
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Patent Number:	9055376
Patent Number:	9055348
Patent Number:	9055343

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Patent Number:	9053555
Patent Number:	9053530
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Patent Number:	9052988
Patent Number:	9052986
Patent Number:	9052966
Patent Number:	9052804

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Patent Number:	9049569
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Patent Number:	9049555
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Patent Number:	9049137
Patent Number:	9049076
Patent Number:	9049055
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Patent Number:	9047692
Patent Number:	9047644
Patent Number:	9047627
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Patent Number:	9047378
Patent Number:	9047356
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Patent Number:	9047345
Patent Number:	9047339
Patent Number:	9047315
Patent Number:	9047307
Patent Number:	9047278

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Patent Number:	9047259
Patent Number:	9047254
Patent Number:	9047244
Patent Number:	9047101
Patent Number:	9047097
Patent Number:	9047012
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Patent Number:	9046943
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Patent Number:	9046684
Patent Number:	9046414
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Patent Number:	9043828
Patent Number:	9043733
Patent Number:	9043714
Patent Number:	9043699
Patent Number:	9043602
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Patent Number:	9043444
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Patent Number:	9043322
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Patent Number:	9043304
Patent Number:	9043302
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Patent Number:	9042906
Patent Number:	9042605
Patent Number:	9042523
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Patent Number:	9038038
Patent Number:	9037914
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Patent Number:	9037703
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Patent Number:	9037660
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Patent Number:	9037599
Patent Number:	9037598
Patent Number:	9037591
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Patent Number:	9037573
Patent Number:	9037568
Patent Number:	9037563
Patent Number:	9037464
Patent Number:	9037455
Patent Number:	9037199
Patent Number:	9037125
Patent Number:	9036921
Patent Number:	9036153
Patent Number:	9036078
Patent Number:	9036044
Patent Number:	9036000
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Property Type	Number
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Patent Number:	9035992
Patent Number:	9035878
Patent Number:	9035875
Patent Number:	9035609
Patent Number:	9032467
Patent Number:	9032434
Patent Number:	9032321
Patent Number:	9032316
Patent Number:	9032289
Patent Number:	9032250
Patent Number:	9032199
Patent Number:	9032020
Patent Number:	9031970
Patent Number:	9031964
Patent Number:	9031960
Patent Number:	9031954
Patent Number:	9031951
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Patent Number:	9031138
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Patent Number:	9030571
Patent Number:	9030499
Patent Number:	9030293
Patent Number:	9027127
Patent Number:	9026939
Patent Number:	9026935

Property Type	Number
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Patent Number:	9026859
Patent Number:	9026850
Patent Number:	9026783
Patent Number:	9026676
Patent Number:	9026592
Patent Number:	9026545
Patent Number:	9026540
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Patent Number:	9026493
Patent Number:	9026479
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Patent Number:	9026431
Patent Number:	9026426
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Patent Number:	9026232
Patent Number:	9026145
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Patent Number:	9024843
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Patent Number:	9021599
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Patent Number:	9021443
Patent Number:	9021421
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Patent Number:	9020858
Patent Number:	9020824
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Patent Number:	9020763
Patent Number:	9020646
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Patent Number:	9019268
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Patent Number:	9019111
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Patent Number:	9014543
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Property Type	Number
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Patent Number:	9014264
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Patent Number:	9013543
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Patent Number:	9010636
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Patent Number:	9009834
Patent Number:	9009805
Patent Number:	9009788
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Patent Number:	9009739
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Patent Number:	9009624
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Patent Number:	9009589
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Patent Number:	9009500
Patent Number:	9009458
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Patent Number:	9009258
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Patent Number:	9009065
Patent Number:	9009053
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Patent Number:	9009042

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Patent Number:	9008356
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Patent Number:	9007380
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Patent Number:	8954589

Property Type	Number
Patent Number:	8954577
Patent Number:	8954567
Patent Number:	8954566
Patent Number:	8954561

CORRESPONDENCE DATA

Fax Number: (650)742-0644

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Email: paralegal@convergenceiplaw.com

Correspondent Name: CONVERGENCE INTELLECTUAL PROPERTY LAW P.C

Address Line 1: 2251 GRANT RD. SUITE G

Address Line 4: LOS ALTOS, CALIFORNIA 94024

ATTORNEY DOCKET NUMBER: GOOGLELLC-003US

NAME OF SUBMITTER: ANEESH KRISHNAN

SIGNATURE: /ANEESH/

DATE SIGNED: 10/02/2017

Total Attachments: 4

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Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "GOOGLE INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "GOOGLE INC." TO "GOOGLE LLC", FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF SEPTEMBER, A.D. 2017, AT 12:42 O`CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE THIRTIETH DAY OF SEPTEMBER, A.D. 2017 AT 11:59 O`CLOCK P.M.



Handwritten signature of Jeffrey W. Bullock, Secretary of State of Delaware, over a horizontal line.

3582691 8100V
SR# 20176403570

Authentication: 203316782
Date: 09-29-17

You may verify this certificate online at corp.delaware.gov/authver.shtml

PATENT
REEL: 048936 FRAME: 0528

CERTIFICATE OF CONVERSION
OF
GOOGLE INC.
(a Delaware corporation)
TO
GOOGLE LLC
(a Delaware limited liability company)

This Certificate of Conversion is being filed in accordance with the provisions of 6 Del. C. § 18-214 to convert Google Inc., a Delaware corporation (the "**Corporation**"), to Google LLC, a Delaware limited liability company, and the undersigned does hereby certify as follows:

1. The jurisdiction where the Corporation was first incorporated is the State of Delaware.
2. The Corporation was first incorporated in the State of Delaware on October 22, 2002.
3. The name of the Corporation immediately prior to the filing of this Certificate of Conversion was Google Inc.
4. The name of the limited liability company as set forth in the attached Certificate of Formation is Google LLC.
5. The effective time of the conversion of the Corporation into a Delaware limited liability company pursuant to and in accordance with Section 266 of the General Corporation Law of the State of Delaware and Section 18-214 of the Delaware Limited Liability Company Act is 11:59 PM EDT on September 30, 2017 (the "**Effective Time**").

IN WITNESS WHEREOF, the undersigned, as an authorized officer, has executed this Certificate of Conversion.

GOOGLE INC.

By: /s/ Kenneth H. Yi
Name: Kenneth H. Yi
Title: Assistant Secretary

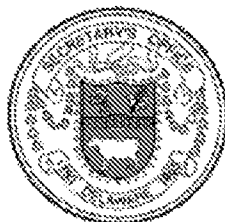
Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "GOOGLE LLC" FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF SEPTEMBER, A.D. 2017, AT 12:42 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE THIRTIETH DAY OF SEPTEMBER, A.D. 2017 AT 11:59 O'CLOCK P.M.



A handwritten signature in black ink, appearing to read "JBULLOCK", written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed in a small font.

3582691 8100V
SR# 20176403570

Authentication: 203316782
Date: 09-29-17

You may verify this certificate online at corp.delaware.gov/authver.shtml

PATENT
REEL: 048936 FRAME: 0580

CERTIFICATE OF FORMATION

OF

GOOGLE LLC

The undersigned, desiring to form a limited liability company pursuant to the Delaware Limited Liability Company Act, 6 Delaware Code, Chapter 18, does hereby certify as follows:

- I. The name of the limited liability company is Google LLC (the "**Company**").
- II. The address of its registered office in the State of Delaware is 251 Little Falls Drive, Wilmington, County of New Castle, Delaware 19808. The name of the registered agent at such address is Corporation Service Company.
- III. The effective time of the formation of the Company into a Delaware limited liability company pursuant to and in accordance with Section 266 of the General Corporation Law of the State of Delaware and Section 18-214 of the Delaware Limited Liability Company Act is 11:59 PM EDT on September 30, 2017 (the "**Effective Time**").

IN WITNESS WHEREOF, the undersigned, as an authorized person, has executed this Certificate of Formation of Google LLC.

By: /s/ Kenneth H. Yi

Name: Kenneth H. Yi

Title: Authorized Person