

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5507156

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	CHANGE OF NAME
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GOOGLE INC.	09/29/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Google 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: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16333505
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	(212) 765-5070
<b>Email:</b>	apsi@fr.com, lswanson@fr.com
<b>Correspondent Name:</b>	JOSEPH VALENTINO
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	16113-7999US1
<b>NAME OF SUBMITTER:</b>	LISA SWANSON
<b>SIGNATURE:</b>	/Lisa Swanson/
<b>DATE SIGNED:</b>	05/03/2019
<b>Total Attachments: 58</b>	
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<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4622442

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<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GOOGLE INC.	09/29/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GOOGLE 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: 2000</b>	
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Property Type	Number
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Property Type	Number
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Property Type	Number
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Patent Number:	9113203
Patent Number:	9113202
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Patent Number:	9113032
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Patent Number:	9110880



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Patent Number:	9110562
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Patent Number:	9104887
Patent Number:	9104881

Property Type	Number
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Patent Number:	9104750
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Patent Number:	9104744
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Patent Number:	9104605
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Patent Number:	9098279
Patent Number:	9098278
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Patent Number:	9098176
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Patent Number:	9094663

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Patent Number:	9092479
Patent Number:	9092463
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Patent Number:	9092440
Patent Number:	9092422
Patent Number:	9092413

Property Type	Number
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Patent Number:	9092390
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Patent Number:	9092296
Patent Number:	9092223
Patent Number:	9092109
Patent Number:	9092068
Patent Number:	9092040
Patent Number:	9092039
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Patent Number:	9091453
Patent Number:	9088917
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Patent Number:	9088625
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Patent Number:	9087401
Patent Number:	9087391
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Patent Number:	9087337
Patent Number:	9087297
Patent Number:	9087271
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Patent Number:	9087260
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Patent Number:	9087235
Patent Number:	9087208
Patent Number:	9087156
Patent Number:	9087154
Patent Number:	9087133
Patent Number:	9087131

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Patent Number:	9087124
Patent Number:	9087107
Patent Number:	9087096
Patent Number:	9087084
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Patent Number:	9087058
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Patent Number:	9084013
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Patent Number:	9083988
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Patent Number:	9083885
Patent Number:	9083873
Patent Number:	9083761
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Patent Number:	9083676
Patent Number:	9083670
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Patent Number:	9083583
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Patent Number:	9082407
Patent Number:	9082401
Patent Number:	9082136
Patent Number:	9082133
Patent Number:	9082092
Patent Number:	9082018

Property Type	Number
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Patent Number:	9081861
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Patent Number:	9081832
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Patent Number:	9081587
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Patent Number:	9081473
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Patent Number:	9078375
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Patent Number:	9077678
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Patent Number:	9076270
Patent Number:	9076166
Patent Number:	9076163
Patent Number:	9076158
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Patent Number:	9076153

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Patent Number:	9076076
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Patent Number:	9076061
Patent Number:	9076040
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Patent Number:	9076032
Patent Number:	9075979
Patent Number:	9075974
Patent Number:	9075945
Patent Number:	9075875
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:	9075517
Patent Number:	9075506
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Patent Number:	9075436
Patent Number:	9075419
Patent Number:	9075249
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Patent Number:	9071681
Patent Number:	9071597
Patent Number:	9071441
Patent Number:	9071309
Patent Number:	9071282
Patent Number:	9070918



Property Type	Number
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Patent Number:	9070211
Patent Number:	9070210
Patent Number:	9070183
Patent Number:	9070182
Patent Number:	9070117
Patent Number:	9070089
Patent Number:	9069866
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Patent Number:	9069864
Patent Number:	9069856
Patent Number:	9069849
Patent Number:	9069841
Patent Number:	9069835
Patent Number:	9069825
Patent Number:	9069806
Patent Number:	9069794
Patent Number:	9069793
Patent Number:	9069776
Patent Number:	9069753
Patent Number:	9069744
Patent Number:	9069681
Patent Number:	9069658
Patent Number:	9069616
Patent Number:	9069615
Patent Number:	9069567
Patent Number:	9069523
Patent Number:	9069434
Patent Number:	9069416
Patent Number:	9069394
Patent Number:	9069382
Patent Number:	9069164
Patent Number:	9069115
Patent Number:	9068846
Patent Number:	9066130
Patent Number:	9066122
Patent Number:	9066017
Patent Number:	9066009

Property Type	Number
Patent Number:	9065993
Patent Number:	9065894
Patent Number:	9065872
Patent Number:	9065863
Patent Number:	9065859
Patent Number:	9065836
Patent Number:	9065824
Patent Number:	9065727
Patent Number:	9065532
Patent Number:	9065277
Patent Number:	9064448
Patent Number:	9064436
Patent Number:	9064416
Patent Number:	9064309
Patent Number:	9064269
Patent Number:	9064264
Patent Number:	9064261
Patent Number:	9064118
Patent Number:	9064026
Patent Number:	9064024
Patent Number:	9064013
Patent Number:	9064007
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Patent Number:	9063984
Patent Number:	9063983
Patent Number:	9063972
Patent Number:	9063954
Patent Number:	9063951
Patent Number:	9063818
Patent Number:	9063811
Patent Number:	9063726
Patent Number:	9063668
Patent Number:	9063645
Patent Number:	9063641
Patent Number:	9063638
Patent Number:	9063611
Patent Number:	9060451
Patent Number:	9060320

Property Type	Number
Patent Number:	9060207
Patent Number:	9060106
Patent Number:	9060095
Patent Number:	9060062
Patent Number:	9060059
Patent Number:	9058805
Patent Number:	9058684
Patent Number:	9058613
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Patent Number:	9058562
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
Patent Number:	9058332
Patent Number:	9058329
Patent Number:	9058251
Patent Number:	9058194
Patent Number:	9058193
Patent Number:	9058189
Patent Number:	9058122
Patent Number:	9058096
Patent Number:	9058079
Patent Number:	9058054
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Patent Number:	9057618
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Patent Number:	9057612
Patent Number:	9055376
Patent Number:	9055348
Patent Number:	9055343

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Patent Number:	9055191
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Patent Number:	9055120
Patent Number:	9055062
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Patent Number:	9053555
Patent Number:	9053530
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Patent Number:	9053243
Patent Number:	9053199
Patent Number:	9053185
Patent Number:	9053177
Patent Number:	9053171
Patent Number:	9053156
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Patent Number:	9053115
Patent Number:	9053107
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Patent Number:	9052988
Patent Number:	9052986
Patent Number:	9052966
Patent Number:	9052804

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Patent Number:	9049569
Patent Number:	9049567
Patent Number:	9049555
Patent Number:	9049485
Patent Number:	9049309
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Patent Number:	9049261
Patent Number:	9049211
Patent Number:	9049137
Patent Number:	9049076
Patent Number:	9049055
Patent Number:	9048913
Patent Number:	9047976
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Patent Number:	9047706
Patent Number:	9047692
Patent Number:	9047644
Patent Number:	9047627
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Patent Number:	9047378
Patent Number:	9047356
Patent Number:	9047348
Patent Number:	9047345
Patent Number:	9047339
Patent Number:	9047315
Patent Number:	9047307
Patent Number:	9047278

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Patent Number:	9047268
Patent Number:	9047259
Patent Number:	9047254
Patent Number:	9047244
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Patent Number:	9047097
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Patent Number:	9046943
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Patent Number:	9046684
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Patent Number:	9043870
Patent Number:	9043828
Patent Number:	9043733
Patent Number:	9043714
Patent Number:	9043699
Patent Number:	9043602
Patent Number:	9043515
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Patent Number:	9043398
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Patent Number:	9043325
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Patent Number:	9043319
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Patent Number:	9043304
Patent Number:	9043302
Patent Number:	9043300

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Patent Number:	9043223
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Patent Number:	9043198
Patent Number:	9043197
Patent Number:	9042912
Patent Number:	9042906
Patent Number:	9042605
Patent Number:	9042523
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Patent Number:	9038146
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Patent Number:	9038054
Patent Number:	9038038
Patent Number:	9037914
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Patent Number:	9037568
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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
Patent Number:	9035999

Property Type	Number
Patent Number:	9035996
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
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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
Patent Number:	9026537
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Patent Number:	9026516
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Patent Number:	9026493
Patent Number:	9026479
Patent Number:	9026451
Patent Number:	9026431
Patent Number:	9026426
Patent Number:	9026254
Patent Number:	9026232
Patent Number:	9026145
Patent Number:	9025888
Patent Number:	9025861
Patent Number:	9025811
Patent Number:	9025810
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Patent Number:	9024843
Patent Number:	9024842
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Patent Number:	9021599
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Patent Number:	9021443
Patent Number:	9021421
Patent Number:	9021402
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Patent Number:	9021379

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Patent Number:	9015837
Patent Number:	9015832
Patent Number:	9015827
Patent Number:	9015824
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Patent Number:	9015718
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Patent Number:	9015682
Patent Number:	9015680
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Patent Number:	9015505
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Patent Number:	9015195
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Patent Number:	9015043
Patent Number:	9014981
Patent Number:	9014726
Patent Number:	9014720
Patent Number:	9014543
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Property Type	Number
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Patent Number:	9014264
Patent Number:	9014191
Patent Number:	9013793
Patent Number:	9013543
Patent Number:	9013539
Patent Number:	9013510
Patent Number:	9010636
Patent Number:	9009843
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
Patent Number:	9009582
Patent Number:	9009500
Patent Number:	9009458
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Patent Number:	9009258
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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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Phone: 6507420644

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.



A handwritten signature in black ink, appearing to read "JBULLOCK", written 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](http://corp.delaware.gov/authver.shtml)

**PATENT**  
**REEL: 040262 FRAME: 0520**

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

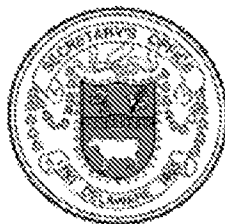
# Delaware

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](http://corp.delaware.gov/authver.shtml)

**PATENT**  
**REEL: 040262 FRAME: 0528**

**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