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

EPAS ID: PAT3857948

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|------------------------------|---|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the ASSIGNEE previously recorded on Reel 037575 Frame 0106. Assignor(s) hereby confirms the THE CORRECT ASSIGNEE IS: INTELLECTUAL VENTURES HOLDING 81 LLC. |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------------------------|----------------|
| INTELLECTUAL VENTURES HOLDING 68 LLC | 08/27/2015 |

RECEIVING PARTY DATA

| | |
|--------------------------|--------------------------------------|
| Name: | INTELLECTUAL VENTURES HOLDING 81 LLC |
| Street Address: | 7251 W LAKE MEAD BLVD |
| Internal Address: | SUITE 300 |
| City: | LAS VEGAS |
| State/Country: | NEVADA |
| Postal Code: | 89128 |

PROPERTY NUMBERS Total: 3

| Property Type | Number |
|----------------|---------|
| Patent Number: | 6161108 |
| Patent Number: | 6047265 |
| Patent Number: | 6477507 |

CORRESPONDENCE DATA

Fax Number: (425)679-0580

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.

Email: ivrecording@intven.com
Correspondent Name: BRUNDIDGE & STANGER, P.C.
Address Line 1: 2318 MILL ROAD
Address Line 2: SUITE 1020
Address Line 4: ALEXANDRIA, VIRGINIA 22314

| | |
|---------------------------|-----------------|
| NAME OF SUBMITTER: | JANICE GOEBEL |
| SIGNATURE: | /Janice Goebel/ |
| DATE SIGNED: | 05/04/2016 |

Total Attachments: 22

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3709665

| | |
|---|---|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | MERGER |
| EFFECTIVE DATE: | 08/28/2015 |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| INTELLECTUAL VENTURES HOLDING 68 LLC | 08/27/2015 |
| RECEIVING PARTY DATA | |
| Name: | INTELLECTUAL VENTURES FUND HOLDING 81 LLC |
| Street Address: | 7251 W LAKE MEAD BLVD |
| Internal Address: | STE 300 |
| City: | LAS VEGAS |
| State/Country: | NEVADA |
| Postal Code: | 89128 |
| PROPERTY NUMBERS Total: 3 | |
| Property Type | Number |
| Patent Number: | 6161108 |
| Patent Number: | 6047265 |
| Patent Number: | 6477507 |
| CORRESPONDENCE DATA | |
| Fax Number: | (425)679-0580 |
| <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> | |
| Email: | ivrecording@intven.com |
| Correspondent Name: | BRUNDIDGE & STANGER, P.C. |
| Address Line 1: | 2318 MILL ROAD |
| Address Line 2: | SUITE 1020 |
| Address Line 4: | ALEXANDRIA, VIRGINIA 22314 |
| NAME OF SUBMITTER: | JOANN REYNOLDS |
| SIGNATURE: | /Joann Reynolds/ |
| DATE SIGNED: | 01/25/2016 |
| Total Attachments: 17 | |
| source=++ Intellectual Ventures Holding 81 LLC NV filed Articles of Merger_28 Aug 2015 (corrected)#page1.tif | |
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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

| | |
|---|---|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | MERGER |
| EFFECTIVE DATE: | 08/28/2015 |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| INTELLECTUAL VENTURES HOLDING 68 LLC | 08/27/2015 |
| RECEIVING PARTY DATA | |
| Name: | INTELLECTUAL VENTURES FUND HOLDING 81 LLC |
| Street Address: | 7251 W LAKE MEAD BLVD |
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| City: | LAS VEGAS |
| State/Country: | NEVADA |
| Postal Code: | 89128 |
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| Patent Number: | 6161108 |
| Patent Number: | 6047265 |
| Patent Number: | 6477507 |
| CORRESPONDENCE DATA | |
| Fax Number: | (425)679-0580 |
| Email: | ivrecording@intven.com |
| <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> | |
| Correspondent Name: | BRUNDIDGE & STANGER, P.C. |
| Address Line 1: | 2318 MILL ROAD |
| Address Line 2: | SUITE 1020 |
| Address Line 4: | ALEXANDRIA, VIRGINIA 22314 |
| NAME OF SUBMITTER: | JOANN REYNOLDS |
| Signature: | /Joann Reynolds/ |
| Date: | 01/25/2016 |

Total Attachments: 17

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RECEIPT INFORMATION

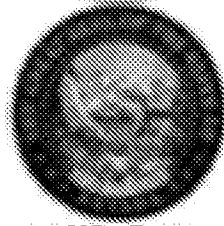
EPAS ID: PAT3709665

Receipt Date: 01/25/2016

PATENT**REEL: 038602 FRAME: 0521**

:19 PM]

STATE OF NEVADA



BARBARA K. CEGAVSKE
Secretary of State

JEFFERY LANDERFELT
Deputy Secretary
for Commercial Recordings

OFFICE OF THE
SECRETARY OF STATE

Copy Request

October 9, 2015

Job Number: C20151009-0680
Reference Number: 00010098191-79
Expedite:
Through Date:

| Document Number(s) | Description | Number of Pages |
|---------------------------|--------------------|------------------------|
| 20150391192-13 | Merge In | 16 Pages/1 Copies |

Respectfully,

A handwritten signature in black ink that reads "Barbara K. Cegavske". The signature is written in a cursive style.

BARBARA K. CEGAVSKE
Secretary of State

Commercial Recording Division
202 N. Carson Street
Carson City, Nevada 89701-4201
Telephone (775) 684-5708
Fax (775) 684-7138

PATENT
REEL: 038602 FRAME: 0522



140105



BARBARA K. CEGAVSKE
Secretary of State
202 North Carson Street
Carson City, Nevada 89701-4201
(775) 684-5708
Website: www.nvsos.gov

| | |
|--|---|
| Filed in the office of <i>Barbara K. Cegavske</i> Barbara K. Cegavske Secretary of State State of Nevada | Document Number 20150391192-13 |
| | Filing Date and Time 08/28/2015 3:18 PM |
| | Entity Number E0679592008-0 |

Articles of Merger
(PURSUANT TO NRS 82A.200)
Page 1

USE BLACK INK ONLY - DO NOT HIGHLIGHT

ABOVE SPACE IS FOR OFFICE USE ONLY

Articles of Merger
(Pursuant to NRS Chapter 92A)

1) Name and jurisdiction of organization of each constituent entity (NRS 82A.200):

If there are more than four merging entities, check box and attach an 8 1/2" x 11" blank sheet containing the required information for each additional entity from article one.

Intellectual Venture Funding LLC

Name of merging entity

Nevada

Jurisdiction

limited-liability company

Entity type *

Intellectual Ventures Fund 56 LLC

Name of merging entity

Nevada

Jurisdiction

limited-liability company

Entity type *

Intellectual Ventures Fund 57 LLC

Name of merging entity

Nevada

Jurisdiction

limited-liability company

Entity type *

Intellectual Ventures Fund 58 LLC

Name of merging entity

Nevada

Jurisdiction

limited-liability company

Entity type *

and,

Intellectual Ventures Holding 81 LLC

Name of surviving entity

Nevada

Jurisdiction

limited-liability company

Entity type *

* Corporation, non-profit corporation, limited partnership, limited-liability company or business trust.

Filing Fee: \$350.00

This form must be accompanied by appropriate fees.

Nevada Secretary of State 92A Merger Page 1
Revised: 1-5-15



BARBARA K. CEGAVSKE
 Secretary of State
 202 North Carson Street
 Carson City, Nevada 89701-4201
 (775) 684-5708
 Website: www.nvsos.gov

Articles of Merger
 (PURSUANT TO NRS 92A.200)
 Page 2

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2) Forwarding address where copies of process may be sent by the Secretary of State of Nevada (if a foreign entity is the survivor in the merger - NRS 92A.180):

Attn:

c/o:

3) Choose one:

- The undersigned declares that a plan of merger has been adopted by each constituent entity (NRS 92A.200).
- The undersigned declares that a plan of merger has been adopted by the parent domestic entity (NRS 92A.180).

4) Owner's approval (NRS 92A.200) (options a, b or c must be used, as applicable, for each entity):

- If there are more than four merging entities, check box and attach an 8 1/2" x 11" blank sheet containing the required information for each additional entity from the appropriate section of article four.

(a) Owner's approval was not required from

Name of merging entity, if applicable

Name of merging entity, if applicable

Name of merging entity, if applicable

Name of merging entity, if applicable

and, or,

Name of surviving entity, if applicable

This form must be accompanied by appropriate fees.

Nevada Secretary of State 92A Merger Page 2
 Revised: 1-5-15



BARBARA K. CEGAVSKE
 Secretary of State
 202 North Carson Street
 Carson City, Nevada 89701-4201
 (775) 684-5708
 Website: www.nvsos.gov

Articles of Merger
 (PURSUANT TO NRS 92A.200)
 Page 3

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(b) The plan was approved by the required consent of the owners of*:

- Name of merging entity, if applicable
- Name of merging entity, if applicable
- Name of merging entity, if applicable
- Name of merging entity, if applicable

and, or:

- Name of surviving entity, if applicable

* Unless otherwise provided in the certificate of trust or governing instrument of a business trust, a merger must be approved by all the trustees and beneficial owners of each business trust that is a constituent entity in the merger.

This form must be accompanied by appropriate fees.

Nevada Secretary of State G2A Merger Page 3
 Revised: 1-8-15



BARBARA K. CEGAVSKE
 Secretary of State
 202 North Carson Street
 Carson City, Nevada 89701-4201
 (775) 884-6708
 Website: www.nvsos.gov

Articles of Merger
 (PURSUANT TO NRS 92A.200)
 Page 4

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(c) Approval of plan of merger for Nevada non-profit corporation (NRS 92A.160):

The plan of merger has been approved by the directors of the corporation and by each public officer or other person whose approval of the plan of merger is required by the articles of incorporation of the domestic corporation.

Name of merging entity, if applicable

Name of merging entity, if applicable

Name of merging entity, if applicable

Name of merging entity, if applicable

and, or:

Name of surviving entity, if applicable

This form must be accompanied by appropriate fees.

Nevada Secretary of State 92A Merger Page 4
 Revised: 1-3-16



BARBARA K. CEGAVSKE
 Secretary of State
 202 North Carson Street
 Carson City, Nevada 89701-4201
 (775) 684-5703
 Website: www.nvsos.gov

Articles of Merger
 (PURSUANT TO NRS 92A.200)
Page 5

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5) Amendments, if any, to the articles or certificate of the surviving entity. Provide article numbers, if available. (NRS 92A.200)*:

6) Location of Plan of Merger (check a or b):

(a) The entire plan of merger is attached;

or,

(b) The entire plan of merger is on file at the registered office of the surviving corporation, limited-liability company or business trust, or at the records office address if a limited partnership, or other place of business of the surviving entity (NRS 92A.200).

7) Effective date and time of filing: (optional) (must not be later than 90 days after the certificate is filed)

Date: Time:

* Amended and restated articles may be attached as an exhibit or integrated into the articles of merger. Please entitle them "Restated" or "Amended and Restated," accordingly. The form to accompany restated articles prescribed by the secretary of state must accompany the amended and/or restated articles. Pursuant to NRS 92A.180 (merger of subsidiary into parent - Nevada parent owning 90% or more of subsidiary), the articles of merger may not contain amendments to the constituent documents of the surviving entity except that the name of the surviving entity may be changed.

This form must be accompanied by appropriate fees.

Nevada Secretary of State 92A Merger Page 5
 Revised: 1-5-16



BARBARA K. CEGAVSKE
 Secretary of State
 202 North Carson Street
 Carson City, Nevada 89701-4201
 (775) 684-5708
 Website: www.nvsos.gov

Articles of Merger
 (PURSUANT TO NRS 92A.200)
 Page 6

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8) Signatures - Must be signed by: An officer of each Nevada corporation; All general partners of each Nevada limited partnership; All general partners of each Nevada limited-liability limited partnership; A manager of each Nevada limited-liability company with managers or one member if there are no managers; A trustee of each Nevada business trust (NRS 92A.230)*

If there are more than four merging entities, check box and attach an 8 1/2" x 11" blank sheet containing the required information for each additional entity from article eight.

Intellectual Venture Funding LLC

Name of merging entity
 Signature: *[Signature]* Byron Springer, as Assistant Secretary of NV Manager LLC, Manager
 Title: Manager Date: 8/27/2015

Intellectual Ventures Fund 56 LLC

Name of merging entity
 Signature: *[Signature]* Byron Springer, as Assistant Secretary of NV Manager LLC, Manager
 Title: Manager Date: 8/27/2015

Intellectual Ventures Fund 57 LLC

Name of merging entity
 Signature: *[Signature]* Byron Springer, as Assistant Secretary of NV Manager LLC, Manager
 Title: Manager Date: 8/27/2015

Intellectual Ventures Fund 58 LLC

Name of merging entity
 Signature: *[Signature]* Byron Springer, as Assistant Secretary of NV Manager LLC, Manager
 Title: Manager Date: 8/27/2015

and,

Intellectual Ventures Holding 81 LLC

Name of surviving entity
 Signature: *[Signature]* Byron Springer, as Assistant Secretary of NV Manager LLC, Manager
 Title: Manager Date: 8/27/2015

* The articles of merger must be signed by each foreign constituent entity in the manner provided by the law governing it (NRS 92A.230). Additional signature blocks may be added to this page or as an attachment, as needed.

IMPORTANT: Failure to include any of the above information and submit with the proper fees may cause this filing to be rejected.

This form must be accompanied by appropriate fees.

Nevada Secretary of State 92A Merger Page 6
 Revised: 1-6-15

Article One - Additional Merging Entities Pursuant to the Preceding Articles of Merger

Intellectual Ventures Fund 59 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 60 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 61 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 62 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 63 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 64 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 65 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 66 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 67 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 69 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 70 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Article One - Additional Merging Entities Pursuant to the Preceding Articles of Merger
continued

Intellectual Ventures Fund 71 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 72 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 73 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 74 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 75 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 76 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 77 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Fund 80 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 56 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 67 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 68 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Article One - Additional Merging Entities Pursuant to the Preceding Articles of Merger
continued

Intellectual Ventures Holding 69 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 73 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 74 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 75 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 76 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 78 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 79 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company

Intellectual Ventures Holding 80 LLC

Jurisdiction: Nevada
Entity Type: limited-liability company


Article Four §b - Additional Merging Entities Pursuant to the Preceding Articles of Merger

The plan was approved by the required consent of the owners of (continued):


Intellectual Ventures Fund 59 LLC
Intellectual Ventures Fund 60 LLC
Intellectual Ventures Fund 61 LLC
Intellectual Ventures Fund 62 LLC
Intellectual Ventures Fund 63 LLC
Intellectual Ventures Fund 64 LLC
Intellectual Ventures Fund 65 LLC
Intellectual Ventures Fund 66 LLC
Intellectual Ventures Fund 67 LLC
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Intellectual Ventures Holding 74 LLC
Intellectual Ventures Holding 75 LLC
Intellectual Ventures Holding 76 LLC
Intellectual Ventures Holding 78 LLC
Intellectual Ventures Holding 79 LLC
Intellectual Ventures Holding 80 LLC

Article Eight – Additional Merging Entities' Signatures to the Preceding Articles of Merger


Name of Merging Entity: Intellectual Ventures Fund 59 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015


Name of Merging Entity: Intellectual Ventures Fund 60 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015


Name of Merging Entity: Intellectual Ventures Fund 61 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 62 LLC
NV Manager LLC, Manager

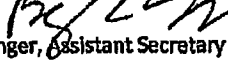
Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 63 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

**Article Eight – Additional Merging Entities' Signatures to the Preceding Articles of Merger -
continued**

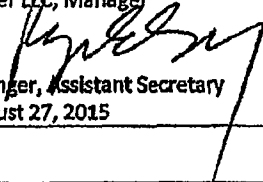
Name of Merging Entity: Intellectual Ventures Fund 64 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

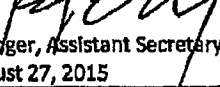
Name of Merging Entity: Intellectual Ventures Fund 65 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary Date: August 27, 2015

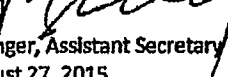
Name of Merging Entity: Intellectual Ventures Fund 66 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 67 LLC
NV Manager LLC, Manager

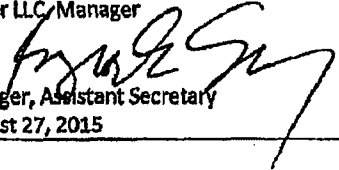
Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 69 LLC
NV Manager LLC, Manager

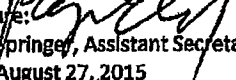
Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

**Article Eight – Additional Merging Entities’ Signatures to the Preceding Articles of Merger -
continued**

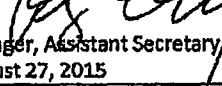
Name of Merging Entity: Intellectual Ventures Fund 70 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

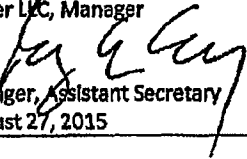
Name of Merging Entity: Intellectual Ventures Fund 71 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

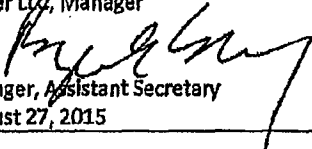
Name of Merging Entity: Intellectual Ventures Fund 72 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 73 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 74 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

**Article Eight – Additional Merging Entities' Signatures to the Preceding Articles of Merger -
continued**

Name of Merging Entity: Intellectual Ventures Fund 75 LLC

NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary

Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 76 LLC

NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary

Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 77 LLC

NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary

Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Fund 80 LLC

NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary

Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Holding 56 LLC


NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary


Date: August 27, 2015

**Article Eight – Additional Merging Entities' Signatures to the Preceding Articles of Merger -
continued**


Name of Merging Entity: Intellectual Ventures Holding 67 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

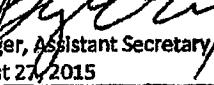
Name of Merging Entity: Intellectual Ventures Holding 68 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

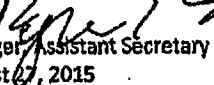
Name of Merging Entity: Intellectual Ventures Holding 69 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Holding 73 LLC
NV Manager LLC, Manager

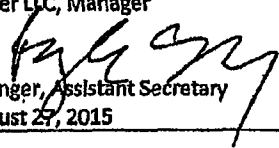
Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Holding 74 LLC
NV Manager LLC, Manager

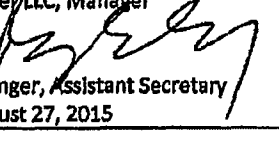
Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

**Article Eight – Additional Merging Entities' Signatures to the Preceding Articles of Merger -
continued**

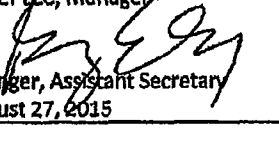
Name of Merging Entity: Intellectual Ventures Holding 75 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

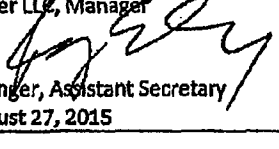
Name of Merging Entity: Intellectual Ventures Holding 76 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

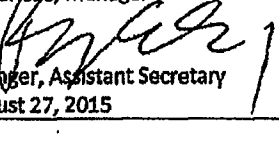
Name of Merging Entity: Intellectual Ventures Holding 78 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Holding 79 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015

Name of Merging Entity: Intellectual Ventures Holding 80 LLC
NV Manager LLC, Manager

Signature: 
Byron Springer, Assistant Secretary
Date: August 27, 2015