

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4365192

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	BT WEB SOLUTIONS, LLC	08/20/2015
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	CUFER ASSET LTD. L.L.C.	
<b>Street Address:</b>	1209 ORANGE STREET	
<b>City:</b>	WILMINGTON	
<b>State/Country:</b>	DELAWARE	
<b>Postal Code:</b>	19904	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15444181
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(703)439-1624	
<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>	5039641129	
<b>Email:</b>	mphilips@lpiplaw.com	
<b>Correspondent Name:</b>	MATTHEW PHILLIPS	
<b>Address Line 1:</b>	7327 SW BARNES ROAD #521	
<b>Address Line 4:</b>	PORTLAND, OREGON 97225	
<b>ATTORNEY DOCKET NUMBER:</b>	41798/0117	
<b>NAME OF SUBMITTER:</b>	MATTHEW C. PHILLIPS	
<b>SIGNATURE:</b>	/M.C. Phillips/	
<b>DATE SIGNED:</b>	04/12/2017	
<b>Total Attachments: 13</b>		
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# Delaware

PAGE 1

*The First State*

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"AC IP SOFTWARE INSTITUTE LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ADS SOFTWARE MGMT. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"ARASTAD SOFTWARE SOLUTIONS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ARCOMP ACQUISITIONS, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"BANDWIDTH WIRELESS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"BAROKAV T.C. PROPERTY HOLDINGS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"BT WEB SOLUTIONS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"CAL. MEDIA, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"CANTRELE TELECOM CO., LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

4454057 8100M

151190457



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2663299

DATE: 08-20-15

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

PATENT  
REEL: 041985 FRAME: 0749

# Delaware

PAGE 2

*The First State*

"COTHRE TECHNOLOGY LTD. LIMITED LIABILITY COMPANY", A  
DELAWARE LIMITED LIABILITY COMPANY,

"CRYSTAL DEVELOPMENT CONSULTING SERVICES L.L.C.", A DELAWARE  
LIMITED LIABILITY COMPANY,

"DAC REMOTE INVESTMENTS LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DEFERN ELECTRONICS LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DETA TECHNOLOGY DEVELOPMENT LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DIGITAL ASSET ENTERPRISES, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DML TECH. HOLDINGS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"DNVN TECHNOLOGY ASSETS L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DRAKEZ TOKAJ RT. L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FAST CHNL. ASSETS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

4454057 8100M

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PATENT  
REEL: 041985 FRAME: 0750

# Delaware

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*The First State*

"FRANKFURT GMBH. LLC", A DELAWARE LIMITED LIABILITY COMPANY,  
"GALLE DEVELOPMENT KG LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"GENERALE MICRO FR, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"GROMENS ACQUISITIONS CO. L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"GS IP LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"HANDHELD DEVICES & CO., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"HOWELL V INVESTMENTS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"I.L. DEVICES LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"INFINITE DATA TRANSFER L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"INTELLECTUAL VENTURES COMPUTING PLATFORCE ASSETS LLC", A  
DELAWARE LIMITED LIABILITY COMPANY,


"INT. PROPERTY CONSULTING, LIMITED LIABILITY COMPANY", A

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REEL: 041985 FRAME: 0751

# Delaware

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*The First State*

DELAWARE LIMITED LIABILITY COMPANY,

"IPOWER HOLDINGS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JAIN V FUND, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"JAWAR SOFTWARE LTD. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"KOZAMATSO SOFTWARE GROUP, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LAVES WIRELESS HOLDINGS LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"LEMCHEN INVENTION I, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"LOT 10 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LOT 11 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LOT 16 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,


"LOT 17 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

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REEL: 041985 FRAME: 0752

# Delaware

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*The First State*

"LOT 3 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LOT 6 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LOT 7 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LOT 8 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LOT 9 ACQUISITION FOUNDATION, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"MANO RECORDINGS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MEMLNK DIGITAL LTD., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MIRIM NETWORK TRANSFER LTD. L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"MOVEMENT SOFTWARE SOLUTIONS L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"MRT ASSET SERVICES, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

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REEL: 041985 FRAME: 0753

# Delaware

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*The First State*

"MWORKS WIRELESS HOLDINGS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"NANPAK REMOTE INVESTMENTS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"OTIC INVESTMENTS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"PRD FC HOLDINGS L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"PROSTDAM OFFSHORE BV, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"PROTOCOL-IP.COM, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"PYFRM HOLDINGS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"QUILES SOFTWARE SOLUTIONS L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"RAVELLES CO. DE, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"RBCS SOFTWARE LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"REFRACTOR APPLICATIONS, LLC", A DELAWARE LIMITED LIABILITY

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REEL: 041985 FRAME: 0754



# Delaware

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*The First State*

COMPANY,

"RESEARCH TRANSFER ENTERPRISE, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"ROEDER CO. LTD., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"SANWORK DATA MGMT. L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"SEARCH RESOURCES MGMT. L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"SINTER WIRELESS HOLDINGS LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"SOLQUE SOFTWARE LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"STEIFFEN TELEKOM A.S., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"STRAFORM DATA MGMT LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"STRAUSS ACQUISITIONS, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ST. STEP V HOLDINGS LLC", A DELAWARE LIMITED LIABILITY

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PATENT  
REEL: 041985 FRAME: 0755

# Delaware

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*The First State*

COMPANY,

"SW REVOLUTIONS LTD. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TC DATA SOLUTIONS, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TC TECH ELECTRONICS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TEVTON DIGITAL APPLICATION AG, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"TRI MBC COMMUNICATIONS L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"TRL PROPERTIES LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"TRSR CAPITAL DE, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TURNPIKE DATA PROCESSING LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"U KROWEL LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"U-SMART NETWORKING LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

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AUTHENTICATION: 2663299

DATE: 08-20-15

PATENT  
REEL: 041985 FRAME: 0756

# Delaware

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*The First State*

"VALCOM LABS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VAN DETSAN NETWORKS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VENDOR TRACKING COMPANY LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VIG ACQUISITIONS LTD., L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"VOCALCOMM GROUP, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"VOORHUIS PLC, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VOR SOFTWARE MGMT, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"WAITE INVENTORY CONSULTING LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"W.D. BURGEON, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"WM II DATA MANAGEMENT, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

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Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2663299

DATE: 08-20-15

PATENT  
REEL: 041985 FRAME: 0757

# Delaware

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*The First State*

"WOLFE-GANZ GMBH, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"XYLANIS TRANSFER AG, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

WITH AND INTO "CUFER ASSET LTD. L.L.C." UNDER THE NAME OF  
"CUFER ASSET LTD. L.L.C.", A LIMITED LIABILITY COMPANY ORGANIZED  
AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS  
RECEIVED AND FILED IN THIS OFFICE THE NINETEENTH DAY OF AUGUST,  
A.D. 2015, AT 12:09 O'CLOCK P.M.

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Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2663299

DATE: 08-20-15

PATENT  
REEL: 041985 FRAME: 0758

**CERTIFICATE OF MERGER  
OF  
NON-SURVIVING ENTITIES LISTED BELOW  
INTO  
CUFER ASSET LTD. L.L.C.**

The undersigned entity, organized and existing under and by virtue of the Delaware Limited Liability Company Act, does hereby certify as follows:

1. The name and jurisdiction of formation of the constituent entities are as follows:

<u>Name</u>	<u>Jurisdiction of Formation</u>	<u>Type of Entity</u>
<i>The Surviving Entity:</i>		
Cufer Asset Ltd. L.L.C.	Delaware	Limited Liability Company
<i>The Non-Surviving Entities :</i>		
SW Revolutions Ltd. LLC	Delaware	Limited Liability Company
Voorhuis Plc, Limited Liability Company	Delaware	Limited Liability Company
Wolfe-Ganz GmbH, Limited Liability Company	Delaware	Limited Liability Company
Generale Micro Fr, Limited Liability Company	Delaware	Limited Liability Company
Int. Property Consulting, Limited Liability Company	Delaware	Limited Liability Company
MRT Asset Services, Limited Liability Company	Delaware	Limited Liability Company
Steffen Telekom A.S., LLC	Delaware	Limited Liability Company
VocalComm Group, LLC	Delaware	Limited Liability Company
Barokav T.C. Property Holdings LLC	Delaware	Limited Liability Company
Howell V Investments Limited Liability Company	Delaware	Limited Liability Company
Proostdam Offshore BV, L.L.C.	Delaware	Limited Liability Company
Search Resources Mgmt. L.L.C.	Delaware	Limited Liability Company
Dnvn Technology Assets L.L.C.	Delaware	Limited Liability Company
DML Tech. Holdings Limited Liability Company	Delaware	Limited Liability Company
Fast Chnl. Assets, LLC	Delaware	Limited Liability Company
RbCs Software LLC	Delaware	Limited Liability Company
Cantrelle Telecom Co., Limited Liability Company	Delaware	Limited Liability Company
Cal. Media, L.L.C.	Delaware	Limited Liability Company
Drake Tokaj Rt. L.L.C.	Delaware	Limited Liability Company
Mano Recordings Limited Liability Company	Delaware	Limited Liability Company
Turnpike Data Processing LLC	Delaware	Limited Liability Company
Pyfrm Holdings Limited Liability Company	Delaware	Limited Liability Company
TC Data Solutions, L.L.C.	Delaware	Limited Liability Company
GS IP Limited Liability Company	Delaware	Limited Liability Company
Mworks Wireless Holdings LLC	Delaware	Limited Liability Company
FRL Properties Limited Liability Company	Delaware	Limited Liability Company
Bandwidth Wireless Limited Liability Company	Delaware	Limited Liability Company
Infinite Data Transfer L.L.C.	Delaware	Limited Liability Company
Protocol-IP.com, L.L.C.	Delaware	Limited Liability Company

Phyllis Turner-Brim

E-signed 2015-08-11 12:31PM PDT  
pturnerbrim@intven.com

Intellectual Ventures  
VP Chief IP Counsel

Byron E. Springer Jr.

E-signed 2015-08-12 09:06AM PDT  
bspringer@intven.com

***The Non-Surviving Entities - continuing***

	<b>Jurisdiction of Formation</b>	<b>Type of Entity</b>
Refractor Applications, LLC	Delaware	Limited Liability Company
Waite Inventory Consulting Limited Liability Company	Delaware	Limited Liability Company
St. Step V Holdings LLC	Delaware	Limited Liability Company
TC Tech Electronics, LLC	Delaware	Limited Liability Company
TrSr Capital DE, L.L.C.	Delaware	Limited Liability Company
Kozamatso Software Group, L.L.C.	Delaware	Limited Liability Company
BT Web Solutions, LLC	Delaware	Limited Liability Company
AC IP Software Institute LLC	Delaware	Limited Liability Company
Lemchen Invention I, LLC	Delaware	Limited Liability Company
Strauss Acquisitions, L.L.C.	Delaware	Limited Liability Company
Valcom Labs Limited Liability Company	Delaware	Limited Liability Company
Wm II Data Management, LLC	Delaware	Limited Liability Company
MemLnk Digital Ltd., L.L.C.	Delaware	Limited Liability Company
Crystal Development Consulting Services L.L.C.	Delaware	Limited Liability Company
Digital Asset Enterprises, L.L.C.	Delaware	Limited Liability Company
Frankfurt GmbH, LLC	Delaware	Limited Liability Company
Handheld Devices & Co., L.L.C.	Delaware	Limited Liability Company
Vendor Tracking Company Limited Liability Company	Delaware	Limited Liability Company
W.D. Burgeon, Limited Liability Company	Delaware	Limited Liability Company
Arastad Software Solutions, LLC	Delaware	Limited Liability Company
Jain V Fund, Limited Liability Company	Delaware	Limited Liability Company
Nanpak Remote Investments LLC	Delaware	Limited Liability Company
Quiles Software Solutions L.L.C.	Delaware	Limited Liability Company
Roeder Co. Ltd., LLC	Delaware	Limited Liability Company
Research Transfer Enterprise, L.L.C.	Delaware	Limited Liability Company
Ravelles Co. DE, Limited Liability Company	Delaware	Limited Liability Company
Prd FC Holdings L.L.C.	Delaware	Limited Liability Company
DAC Remote Investments LLC	Delaware	Limited Liability Company
Intellectual Ventures Computing Platforce Assets LLC	Delaware	Limited Liability Company
U Krowel LLC	Delaware	Limited Liability Company
Van Detsan Networks Limited Liability Company	Delaware	Limited Liability Company
Xylanis Transfer AG, L.L.C.	Delaware	Limited Liability Company
Lot 3 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Lot 6 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Lot 7 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Lot 8 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Lot 9 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Lot 10 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Lot 11 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Lot 16 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Lot 17 Acquisition Foundation, LLC	Delaware	Limited Liability Company
Sanwork Data Mgmt. L.L.C.	Delaware	Limited Liability Company
Defern Electronics LLC	Delaware	Limited Liability Company
Tri MBC Communications L.L.C.	Delaware	Limited Liability Company

**Phyllis Turner-Brim**

E-signed 2015-08-11 12:31PM PDT

pturnerbrim@intven.com

Intellectual Ventures

VP Chief IP Counsel

**Byron E. Springer Jr.**

E-signed 2015-08-12 09:06AM PDT

bspringer@intven.com

***The Non-Surviving Entities - continuing***

	<b>Jurisdiction of Formation</b>	<b>Type of Entity</b>
Vor Software Mgmt, L.L.C.	Delaware	Limited Liability Company
Arcomp Acquisitions, L.L.C.	Delaware	Limited Liability Company
Solque Software Limited Liability Company	Delaware	Limited Liability Company
U-smart Networking LLC	Delaware	Limited Liability Company
Straform Data Mgmt Limited Liability Company	Delaware	Limited Liability Company
Gromens Acquisitions Co. L.L.C.	Delaware	Limited Liability Company
IPower Holdings LLC	Delaware	Limited Liability Company
VIG Acquisitions Ltd., L.L.C.	Delaware	Limited Liability Company
I.L. Devices Limited Liability Company	Delaware	Limited Liability Company
Sinter Wireless Holdings LLC	Delaware	Limited Liability Company
ADS Software Mgmt. L.L.C.	Delaware	Limited Liability Company
Movement Software Solutions L.L.C.	Delaware	Limited Liability Company
Deta Technology Development LLC	Delaware	Limited Liability Company
Tevton Digital Application AG, LLC	Delaware	Limited Liability Company
Mirim Network Transfer Ltd. L.L.C.	Delaware	Limited Liability Company
Galle Development KG Limited Liability Company	Delaware	Limited Liability Company
Cothre Technology Ltd. Limited Liability Company	Delaware	Limited Liability Company
Otic Investments Limited Liability Company	Delaware	Limited Liability Company
Jawar Software Ltd. LLC	Delaware	Limited Liability Company
Laves Wireless Holdings LLC	Delaware	Limited Liability Company

2. An agreement of merger has been approved and executed by each of the constituent entities in accordance with Section 18-209 of the Delaware Limited Liability Company Act.

3. The name of the surviving entity is Cufer Asset Ltd. L.L.C.

4. The Certificate of Formation of Cufer Asset Ltd. L.L.C. shall be the Certificate of Formation of the surviving limited liability company.

5. The executed agreement of merger is on file at the principal place of business of the surviving entity located at 3150 139th Avenue SE, Building 4, Bellevue, Washington 98005.

6. A copy of the agreement of merger will be furnished by the surviving entity, on request and without cost, to any member of any constituent limited liability company.

IN WITNESS WHEREOF, the surviving limited liability company has caused this certificate to be signed by an authorized person, on August 12, 2015.

**Cufer Asset Ltd. L.L.C.**

By: Byron E. Springer Jr.

Byron E. Springer Jr. (Aug 12, 2015)

Name: Byron Springer

Its: Authorized Person

**Phyllis Turner-Brim**

E-signed 2015-08-11 12:31PM PDT

pturnerbrim@intven.com

Intellectual Ventures

VP Chief IP Counsel

**Byron E. Springer Jr.**

E-signed 2015-08-12 09:06AM PDT

bspringer@intven.com