

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5356440

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	MERGER		
<b>EFFECTIVE DATE:</b>	09/03/2015		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>			<b>Execution Date</b>
CASTANI CO. L.L.C.			08/27/2015
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	CALLAHAN CELLULAR L.L.C.		
<b>Street Address:</b>	2711 CENTERVILLE RD. SUITE 400		
<b>City:</b>	WILMINGTON		
<b>State/Country:</b>	DELAWARE		
<b>Postal Code:</b>	19808		
<b>PROPERTY NUMBERS Total: 1</b>			
<b>Property Type</b>	<b>Number</b>		
<b>Application Number:</b>	16265457		
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	(216)696-8731		
<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>	216-696-8730		
<b>Email:</b>	epas@thepatentattorneys.com		
<b>Correspondent Name:</b>	AMIN, TUROCY & WATSON, LLP		
<b>Address Line 1:</b>	200 PARK AVENUE		
<b>Address Line 2:</b>	SUITE 300		
<b>Address Line 4:</b>	BEACHWOOD, OHIO 44122		
<b>ATTORNEY DOCKET NUMBER:</b>	VNXTTP101USG		
<b>NAME OF SUBMITTER:</b>	BRIAN D. STEED		
<b>SIGNATURE:</b>	/Brian D. Steed/		
<b>DATE SIGNED:</b>	02/01/2019		
<b>Total Attachments: 34</b>			
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# Delaware

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*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:

"ABEDNEJA ASSETS AG L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"ABIAHA REMOTE, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"AGAVIX INVESTMENTS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ALANZOR RESEARCH A.B. LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ALERUS TRANSFER LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ALSCHATAG DAFF GMBH, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ALSEMIT REMOTE LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"ALSOSTOPHOLLIS ASSETS II, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"AMOSMET INVESTMENTS LLC", A DELAWARE LIMITED LIABILITY COMPANY,



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Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

PATENT  
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# Delaware

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*The First State*

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

"ARIGERN CAPITAL L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ARVOSS TECHNOLOGIES LTD. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"AS TERHOLMAN CO., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ASTRIPHEY APPLICATIONS L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

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

"BARONOTEK ENTERPRISES CO. LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"BASAVAN SOFTWARE DE L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"BEDISH, POLESA & CAMIEL L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"BELLA TOSSO AG, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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"BINFORMA GROUP LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"BINTEROJA CONSULTING LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"BOLIQUE APPLICATIONS LTD., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"BORESHIRE FUND LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"BORGEAU RUX LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"BRADY IS SOLUTIONS, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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

"CAILTAE, VOSS & PIJ MGMT., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"CALDVOR ACQUISITIONS LTD., LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"CARCHELOS MGMT. LTD. L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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"CARMENSO DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"CASANTRA ACQUISITION III LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"CASTANI CO. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"CEASORO APPLICATIONS L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. III, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. I, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. IX, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. VIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. VII, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. VI, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. V, LLC", A DELAWARE LIMITED

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LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XII, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XI, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XIV, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XIX, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XVII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XVI, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XV, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXII, LLC", A DELAWARE

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LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXI, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXIV, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXIX, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XX, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXVIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXVII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXXIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXXII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXXIV, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,


"C.H.I. DEVELOPMENT MGMT. LTD. XXX, LLC", A DELAWARE LIMITED

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LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXXV, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"CISPARIE GROUP LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"COBBLER APPLICATIONS LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"CODAIS DATA LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"COLTRA CAPITAL LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"CONSTAD TRANSFER, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"COSITOPHALUS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"CUREN SOFTWARE ENTERPRISES, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DA CAPITAL FUND LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"DACREOUS CO. LIMITED LIABILTY COMPANY", A DELAWARE LIMITED

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LIABILITY COMPANY,

"DAFINEAIS PROTOCOL DATA B.V., LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DANPAROS CONSULTING L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DESTAZE TOK GROUP, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DIMOD WHIN ENTERPRISES L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DISTALMA MANAGEMENT LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DITROMOSSİ REMOTE BV, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DORMARKE ASSETS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"DOSINIUM CAPITAL A.B. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DRANIAS DEVELOPMENT LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DUILOE MGMT. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED

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LIABILITY COMPANY,

"EASTERN IX GROUP LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EIGHT ESEMAY DE L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EIKOLLA CAPITAL NY, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EIRIKER POST GMBH., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EPOCIZE PROPERTIES N.A. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EZACHA SERVICES NY, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FA CALUTE K.G., LLC", A DELAWARE LIMITED LIABILITY COMPANY,  
"FARODALL MGMT. NY, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FISHELKO RESEARCH LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FOLMANUZ MGMT. L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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*The First State*

"FOLTORA SERVICE LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"FOLUSHA FORTE B.V., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FONNTERRA DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"FORSETT ENTERPRISES LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"FORTELLI CAMPRAS SA, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FORTREAN V, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"FOUR DALPHO BROS., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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

"GARRIMANO CAPITAL LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"GASPANSA REMOTE LTD., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

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"GESCHLAAKT HOLDINGS GMBH, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"GOPALA SOLUTIONS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"GUNTERHOL GMBH, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"HOLLINBECK MGMT. GMBH, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"HUANG RESEARCH PTE. LTD., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"ICANUSTI GROUP L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"IMOPHAZE RESEARCH CO., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"IONAPHAL DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"ITROLAMER HOLDINGS AG L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"IV LBS ASSETS 2 LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JASPIN TRANSFER BV, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

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# Delaware

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*The First State*

"JINSALAS SOLUTIONS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JIQUIN RESEARCH LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"JOALISTER FRAM AB, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"JORDAAN CONSULTING LTD. X, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JOST SOLUTIONS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JOWTIFF BROS. A.B., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JUALONNE B.V., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KAPERNELLY ASSETS AG, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KEANTOP LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"KOLOSKEV PREM B.V., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KOLVOS INVESTMENT HOLDINGS A.B., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

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# Delaware

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*The First State*

"KOMARANNI PROPERTIES, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

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

"KUALO PROPERTIES AU, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KUHURO INVESTMENTS AG, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"KULNRUD GROLL AB, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KWICTRAC SERVICES PA, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"LAASTRA TELECOM GMBH LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"LAMARTELL TECHNOLOGY, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"LAQUDER DEVELOPMENT FI, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

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

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# Delaware

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*The First State*

"LITRELL BROS. LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"LIVY SRVCS. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LOAS TEI PTE., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"LOZE MGMT. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LUCJAV CAPITAL, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MAISETTEM B.V., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"MAKERIAN B.V. LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MANJOTRE DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MANTROSE GROUP LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MAPLE INVESTMENT SVCS. CO. LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"MASINOLLI FUND LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

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# Delaware

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*The First State*

"MASSIMO DIN SOLUTIONS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MOMIN DEVELOPMENT FUND LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MOSTAK RESEARCH CO., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MUCHOSTRO FOUNDATION, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MUNICASCHI BROS. LTD, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"NASTALOR VENTERI TRE L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"NINEL TECHNOLOGY, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"NOREGIN ASSETS N.V., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,


"NOSADIA PASS NV, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"O'HASTINER SVC. LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

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# Delaware

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"OLERCHEFSKI NETWORKS, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OLTINE ACQUISITIONS NY L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OMEREEN WIRELESS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"OPHIVAIN APPLICATIONS NY L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OSTRASSE KRALL GMBH., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"OTOMAKU PROPERTIES LTD., L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OTRSOTECH, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"PASHIREE LTD. IN, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"PELGOPHAL CO. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"PETORONSKI FOUNDATION NY LLC", A DELAWARE LIMITED LIABILITY COMPANY,

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# Delaware

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*The First State*

"PETRIE DATA CO., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PHENTAM DIRE NV, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PHON ACQUISITIONS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"POSOLIS FUND LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"POTEL, KARO & HATRAM, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"P.P.P. CAPITAL ONE, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PRASENDT INVESTMENTS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PRASHTAMA WIRELESS LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PRATT HOLCO KG LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"PROSTA TORRA NV, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

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*The First State*

"PROTARIUS FILO AG, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"PUEBLOMASO DATA LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"PUVAAL APPLICATIONS AG, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QELIKISHI LTD. LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QUANTOLL PRATT CO. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"QUINTENCE PROPERTIES KG, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QUINTRAS FOUNDATION AG L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"QUIVANUS PROCESSING LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QUONSIL PL. 3, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QUOTROS IX CO. AG, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"RADMILA SOLUTIONS, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

5024281 8100M

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Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

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# Delaware

PAGE 19

*The First State*

"RANOLDASIN TELECOM LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"RAWOR SYSTEMS DEVELOPMENT LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"REALOTTO LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"REWIY FOUNDATION LTD. L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"RIALCARDO TICE B.V. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"RIMONCHA DATA CO LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"RIULISTRO SOLUTIONS NY, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"ROLDAN BLOCK NY, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ROSENSTRAUSS APPLICATIONS V, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"SANSOCCA ALANDRO A.B., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

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REEL: 048223 FRAME: 0570

# Delaware

PAGE 20

*The First State*

"SCHUKHAUS GROUP GMBH, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"SCHULKORT TRIO LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"SERADEAUX ASSETS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"SHINSAKA INVESTMENTS LTD., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"SOKIA MGMT. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"SR ADAM RESEARCH AG LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"SULVANUSS CAPITAL L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"TAFFCO THREE FUND, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"TAJITSHU TRANSFER LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"TAMAKOTOMO HOLDINGS CO. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

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Jeffrey W. Bullock, Secretary of State  
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PATENT  
REEL: 048223 FRAME: 0571

# Delaware

PAGE 21

*The First State*

"TARABUNK FUND LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"TAROFISS DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"TARQUIN CONSULTING CO., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TEIGEL PROCESSING AB, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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

"TIJEMIKSHO DATA, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TOKASHINA HOLDINGS LTD., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TUTKO NETWORKS CO., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TWO SOFTWARE FOUNDATION, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"TYSAB SOLUTIONS GROUP LTD., LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

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DATE: 09-03-15

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PATENT  
REEL: 048223 FRAME: 0572

# Delaware

PAGE 22

*The First State*

"UBERGRAFF UGHIF GMBH., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"UCETRANS KG, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"URENSCHI ASSETS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VADARRO SERVICES LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VALKAMARI REMOTE LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VALPARAN DEVELOPMENT LLC", A DELAWARE LIMITED LIABILITY COMPANY,

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

"VANCLOOS AG, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VAXEFUILE DATA, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"VELTRA REMOTE DE, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"VICETTA PAC CO. L.L.C.", A DELAWARE LIMITED LIABILITY

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DATE: 09-03-15

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# Delaware

PAGE 23

*The First State*

COMPANY,

"VINTELL APPLICATIONS NY, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VINTOMIE NETWORKS B.V., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VIVIANA RESEARCH LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VOANESSE P.E. FACILITY LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VOLEX PROPERTIES L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VONQUALIS HOLDINGS CO. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VONSHIRE TECHNOLOGIES L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VOORKEES ENTERPRISES A.B. LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"VUMTEMRA, ASHTON, COLL PC, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"WAKISONI INVESTMENTS PA, L.L.C.", A DELAWARE LIMITED

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PATENT  
REEL: 048223 FRAME: 0574

# Delaware

PAGE 24

*The First State*

LIABILITY COMPANY,

"WAMBARIN APPLICATIONS AB, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"WASINOSKI PROCTER, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WEBLER SOLUTIONS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WENIBULA PORT PTE., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"W. IL INVESTMENTS I, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WINSTATE INVESTMENTS LIMITED, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"WISANTRA NETWORKS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

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

"WISTERIUM DEVELOPMENT LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WOLKOSISKI MGMT. LLC", A DELAWARE LIMITED LIABILITY

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Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

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PATENT  
REEL: 048223 FRAME: 0575

# Delaware

PAGE 25

*The First State*

COMPANY,

"WOODSIDE CREST NY, LLC", A DELAWARE LIMITED LIABILITY

COMPANY,

"WOSHENCHESTER SOLUTIONS LLC", A DELAWARE LIMITED LIABILITY

COMPANY,

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

"XIALAN CHI LTD., LLC", A DELAWARE LIMITED LIABILITY

COMPANY,

"XILOPREM TRE LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"XILUSHUA NETWORKS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"XINSHU MANAGEMENT, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"XOLKOMAR ENTERPRISES L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"XORAM DEVELOPMENT, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,


"XUGAVE HOLDING DE LLC", A DELAWARE LIMITED LIABILITY

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AUTHENTICATION: 2703533

DATE: 09-03-15

PATENT  
REEL: 048223 FRAME: 0576

# Delaware

PAGE 26

*The First State*

COMPANY,

"YAGHASHIMI FOUNDATION LTD., LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"YAKIMISHU CO. LTD., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"YASZISTRA FUND III, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"YOLAB NETWORKS, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"YORALL RESEARCH LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"ZANNI ASSETS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"ZAVALTORN TECHNOLOGIES LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ZITI TECHNOLOGIES LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"ZOLTAS ENTERPRISES AG LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

WITH AND INTO "CALLAHAN CELLULAR L.L.C." UNDER THE NAME OF

5024281 8100M

151252847



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

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PATENT  
REEL: 048223 FRAME: 0577

# Delaware

PAGE 27

*The First State*

"CALLAHAN CELLULAR 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 THIRD DAY OF SEPTEMBER,  
A.D. 2015, AT 9:01 O'CLOCK A.M.



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

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

PATENT  
REEL: 048223 FRAME: 0578

**CERTIFICATE OF MERGER  
OF  
NON-SURVIVING ENTITIES LISTED BELOW  
INTO  
CALLAHAN CELLULAR 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>		
Callahan Cellular L.L.C.	Delaware	Limited Liability Company
<i>The Non-Surviving Entities:</i>		
Abedneja Assets AG L.L.C.	Delaware	Limited Liability Company
Abiaha Remote, L.L.C.	Delaware	Limited Liability Company
Agavix Investments LLC	Delaware	Limited Liability Company
Alanzor Research A.B. LLC	Delaware	Limited Liability Company
Alerus Transfer LLC	Delaware	Limited Liability Company
Alschatag Daff GmbH, LLC	Delaware	Limited Liability Company
Alsemit Remote Limited Liability Company	Delaware	Limited Liability Company
Alsostophollis Assets II, L.L.C.	Delaware	Limited Liability Company
Amosmet Investments LLC	Delaware	Limited Liability Company
Antopholi Software, LLC	Delaware	Limited Liability Company
Arigern Capital L.L.C.	Delaware	Limited Liability Company
Arvoss Technologies Ltd. LLC	Delaware	Limited Liability Company
AS Terholman Co., LLC	Delaware	Limited Liability Company
Astriphey Applications L.L.C.	Delaware	Limited Liability Company
Avenpore Properties Limited Liability Company	Delaware	Limited Liability Company
Baronotek Enterprises Co. LLC	Delaware	Limited Liability Company
Basavan Software DE L.L.C.	Delaware	Limited Liability Company
Bedish, Polesa & Camiel L.L.C.	Delaware	Limited Liability Company
Bella Tosso AG, L.L.C.	Delaware	Limited Liability Company
Binforma Group Limited Liability Company	Delaware	Limited Liability Company
Binteroja Consulting LLC	Delaware	Limited Liability Company
Bolique Applications Ltd., L.L.C.	Delaware	Limited Liability Company
Boreshire Fund Limited Liability Company	Delaware	Limited Liability Company
Borgeau Rux Limited Liability Company	Delaware	Limited Liability Company
Brady IS Solutions, L.L.C.	Delaware	Limited Liability Company
Buvane Holdings Limited Liability Company	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. I, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. III, LLC	Delaware	Limited Liability Company

Phyllis Turner-Brim  
E-signed 2015-08-27 09:49AM PDT  
pturnerbrim@intven.com  
Intellectual Ventures  
VP Chief IP Counsel

Byron E Springer Jr  
E-signed 2015-08-27 11:05AM PDT  
bspringer@intven.com

Jurisdiction of Formation	Type of Entity
---------------------------------	----------------

C.H.I. Development Mgmt. Ltd. IX, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. V, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. VI, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. VII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. VIII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XI, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XIII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XIV, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XIX, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XV, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XVI, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XVII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XX, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXI, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXIII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXIV, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXIX, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXVII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXVIII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXX, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXXII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXXIII, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXXIV, LLC	Delaware	Limited Liability Company
C.H.I. Development Mgmt. Ltd. XXXV, LLC	Delaware	Limited Liability Company
Cailtae, Voss & Pij Mgmt., L.L.C.	Delaware	Limited Liability Company
Caldvor Acquisitions Ltd., LLC	Delaware	Limited Liability Company
Carchelos Mgmt. Ltd. L.L.C.	Delaware	Limited Liability Company
Carmenso Data Limited Liability Company	Delaware	Limited Liability Company
Casantra Acquisition III LLC	Delaware	Limited Liability Company
Castani Co. L.L.C.	Delaware	Limited Liability Company
Ceasoro Applications L.L.C.	Delaware	Limited Liability Company
Cisparie Group Limited Liability Company	Delaware	Limited Liability Company
Cobbler Applications LLC	Delaware	Limited Liability Company
Codais Data Limited Liability Company	Delaware	Limited Liability Company
Coltra Capital Limited Liability Company	Delaware	Limited Liability Company
Constad Transfer, LLC	Delaware	Limited Liability Company
Cositophalus Limited Liability Company	Delaware	Limited Liability Company
Curen Software Enterprises, L.L.C.	Delaware	Limited Liability Company
DA Capital Fund Limited Liability Company	Delaware	Limited Liability Company
Dacreous Co. Limited Liability Company	Delaware	Limited Liability Company
Dafineais Protocol Data B.V., LLC	Delaware	Limited Liability Company

Byron E Springer Jr

E-signed 2015-08-27 11:05AM PDT

bspringer@intven.com

VP Chief IP Counsel

*The Non-Surviving Entities – continuing*

	Jurisdiction of Formation	Type of Entity
Danparos Consulting L.L.C.	Delaware	Limited Liability Company
Destaze TOK Group, LLC	Delaware	Limited Liability Company
Dimod Whin Enterprises L.L.C.	Delaware	Limited Liability Company
Distalma Management LLC	Delaware	Limited Liability Company
Ditromossi Remote BV, L.L.C.	Delaware	Limited Liability Company
Dormarke Assets Limited Liability Company	Delaware	Limited Liability Company
Dosinium Capital A.B. LLC	Delaware	Limited Liability Company
Dranias Development LLC	Delaware	Limited Liability Company
Duiloe Mgmt. Limited Liability Company	Delaware	Limited Liability Company
Eastern IX Group LLC	Delaware	Limited Liability Company
Eight Esemay DE L.L.C.	Delaware	Limited Liability Company
Eikolla Capital NY, LLC	Delaware	Limited Liability Company
Eiriker Post GmbH, LLC	Delaware	Limited Liability Company
Epocize Properties N.A. LLC	Delaware	Limited Liability Company
Ezacha Services NY, L.L.C.	Delaware	Limited Liability Company
FA Calute K.G., LLC	Delaware	Limited Liability Company
Farodall Mgmt. NY, L.L.C.	Delaware	Limited Liability Company
Fishelko Research LLC	Delaware	Limited Liability Company
Folmanuz Mgmt. L.L.C.	Delaware	Limited Liability Company
Foltora Service Limited Liability Company	Delaware	Limited Liability Company
Folusha Forte B.V., LLC	Delaware	Limited Liability Company
Fonnterra Data Limited Liability Company	Delaware	Limited Liability Company
Forsett Enterprises Limited Liability Company	Delaware	Limited Liability Company
Fortelli Campras SA, LLC	Delaware	Limited Liability Company
Fortrean V, Limited Liability Company	Delaware	Limited Liability Company
Four Dalpho Bros., L.L.C.	Delaware	Limited Liability Company
Gallistroff Software LLC	Delaware	Limited Liability Company
Garrimano Capital Limited Liability Company	Delaware	Limited Liability Company
Gaspanza Remote Ltd., LLC	Delaware	Limited Liability Company
Geschlaakt Holdings GmbH, LLC	Delaware	Limited Liability Company
Gopala Solutions Limited Liability Company	Delaware	Limited Liability Company
Gunterhol GmbH, LLC	Delaware	Limited Liability Company
Hollinbeck Mgmt. GmbH, LLC	Delaware	Limited Liability Company
Huang Research Pte. Ltd., L.L.C.	Delaware	Limited Liability Company
Icanusti Group L.L.C.	Delaware	Limited Liability Company
Imophaze Research Co., L.L.C.	Delaware	Limited Liability Company
Ionaphal Data Limited Liability Company	Delaware	Limited Liability Company
Itrolamer Holdings AG L.L.C.	Delaware	Limited Liability Company
IV LBS Assets 2 LLC	Delaware	Limited Liability Company
Jaspin Transfer BV, Limited Liability Company	Delaware	Limited Liability Company
Jinsalas Solutions, LLC	Delaware	Limited Liability Company
Jiquin Research Limited Liability Company	Delaware	Limited Liability Company
Joalister Fram AB, L.L.C.	Delaware	Limited Liability Company

Phyllis Turner-Brim

E-signed 2015-08-27 09:49AM PDT

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Intellectual Ventures

VP Chief IP Counsel

Byron E Springer Jr

E-signed 2015-08-27 11:05AM PDT

bspringer@intven.com



*The Non-Surviving Entities – continuing*

	Jurisdiction of Formation	Type of Entity
Jordaan Consulting Ltd. X, LLC	Delaware	Limited Liability Company
Jost Solutions LLC	Delaware	Limited Liability Company
Jowtiff Bros. A.B., LLC	Delaware	Limited Liability Company
Jualonne B.V., LLC	Delaware	Limited Liability Company
Kapernelly Assets AG, LLC	Delaware	Limited Liability Company
Keantop Limited Liability Company	Delaware	Limited Liability Company
Koloskev Prem B.V., LLC	Delaware	Limited Liability Company
Kolvos Investment Holdings A.B., LLC	Delaware	Limited Liability Company
Komaranni Properties, L.L.C.	Delaware	Limited Liability Company
Korishma Holdings, LLC	Delaware	Limited Liability Company
Kualo Properties AU, LLC	Delaware	Limited Liability Company
Kuhuro Investments AG, L.L.C.	Delaware	Limited Liability Company
Kulnrud Groll AB, LLC	Delaware	Limited Liability Company
Kwictrac Services PA, L.L.C.	Delaware	Limited Liability Company
Laastra Telecom GmbH LLC	Delaware	Limited Liability Company
Lamartell Technology, L.L.C.	Delaware	Limited Liability Company
Laquder Development FI, L.L.C.	Delaware	Limited Liability Company
Larossa Properties Limited Liability Company	Delaware	Limited Liability Company
Litrell Bros. Limited Liability Company	Delaware	Limited Liability Company
Livy Svcs. Limited Liability Company	Delaware	Limited Liability Company
Loas Tei Pte., LLC	Delaware	Limited Liability Company
Loze Mgmt. Limited Liability Company	Delaware	Limited Liability Company
Lucjav Capital, Limited Liability Company	Delaware	Limited Liability Company
Maisettem B.V., LLC	Delaware	Limited Liability Company
Makerian B.V. Limited Liability Company	Delaware	Limited Liability Company
Manjotre Data Limited Liability Company	Delaware	Limited Liability Company
Mantrose Group Limited Liability Company	Delaware	Limited Liability Company
Maple Investment Svcs. Co. LLC	Delaware	Limited Liability Company
Masinolli Fund Limited Liability Company	Delaware	Limited Liability Company
Massimo Din Solutions, LLC	Delaware	Limited Liability Company
Momin Development Fund LLC	Delaware	Limited Liability Company
Mostak Research Co., L.L.C.	Delaware	Limited Liability Company
Muchostro Foundation, L.L.C.	Delaware	Limited Liability Company
Municaschi Bros. Ltd, L.L.C.	Delaware	Limited Liability Company
Nastalor Venteri Tre L.L.C.	Delaware	Limited Liability Company
Ninel Technology, LLC	Delaware	Limited Liability Company
Noregin Assets N.V., L.L.C.	Delaware	Limited Liability Company
Nosadia Pass NV, Limited Liability Company	Delaware	Limited Liability Company
O'Hastiner Svc. Limited Liability Company	Delaware	Limited Liability Company
Olerchefski Networks, L.L.C.	Delaware	Limited Liability Company
Oltine Acquisitions NY L.L.C.	Delaware	Limited Liability Company
Omereen Wireless, LLC	Delaware	Limited Liability Company
Ophivain Applications NY L.L.C.	Delaware	Limited Liability Company

Phyllis Turner-Brim

E-signed 2015-08-27 09:49AM PDT

pturnerbrim@intven.com

Intellectual Ventures

VP Chief IP Counsel

Byron E Springer Jr

E-signed 2015-08-27 11:05AM PDT

bspringer@intven.com



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**PATENT**

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*The Non-Surviving Entities – continuing*

<i>The Non-Surviving Entities – continuing</i>	<b>Jurisdiction of Formation</b>	<b>Type of Entity</b>
Ostrasse Krall GmbH, LLC	Delaware	Limited Liability Company
Otomaku Properties Ltd., L.L.C.	Delaware	Limited Liability Company
Otrsotech, Limited Liability Company	Delaware	Limited Liability Company
P.P.P. Capital One, LLC	Delaware	Limited Liability Company
Pashiree Ltd. IN, L.L.C.	Delaware	Limited Liability Company
Pelgophal Co. Limited Liability Company	Delaware	Limited Liability Company
Petoronski Foundation NY LLC	Delaware	Limited Liability Company
Petrie Data Co., LLC	Delaware	Limited Liability Company
Phentam Dire NV, LLC	Delaware	Limited Liability Company
Phon Acquisitions Limited Liability Company	Delaware	Limited Liability Company
Posolis Fund Limited Liability Company	Delaware	Limited Liability Company
Potel, Karo & Hatram, L.L.C.	Delaware	Limited Liability Company
Prasendt Investments, LLC	Delaware	Limited Liability Company
Prashtama Wireless LLC	Delaware	Limited Liability Company
Pratt Holco KG Limited Liability Company	Delaware	Limited Liability Company
Prosta Torra NV, LLC	Delaware	Limited Liability Company
Protarius Filo AG, L.L.C.	Delaware	Limited Liability Company
Pueblomaso Data Limited Liability Company	Delaware	Limited Liability Company
Puvaal Applications AG, LLC	Delaware	Limited Liability Company
Qelikishi Ltd. LLC	Delaware	Limited Liability Company
Quantoll Pratt Co. L.L.C.	Delaware	Limited Liability Company
Quintence Properties KG, LLC	Delaware	Limited Liability Company
Quintras Foundation AG L.L.C.	Delaware	Limited Liability Company
Quivanus Processing LLC	Delaware	Limited Liability Company
Quonsil Pl. 3, LLC	Delaware	Limited Liability Company
Quotros IX Co. AG, L.L.C.	Delaware	Limited Liability Company
Radmila Solutions, L.L.C.	Delaware	Limited Liability Company
Ranoldasin Telecom LLC	Delaware	Limited Liability Company
Rawor Systems Development LLC	Delaware	Limited Liability Company
Realotto Limited Liability Company	Delaware	Limited Liability Company
Rewiy Foundation Ltd. L.L.C.	Delaware	Limited Liability Company
Rialcardo Tice B.V. LLC	Delaware	Limited Liability Company
Rimoncha Data Co LLC	Delaware	Limited Liability Company
Riulistro Solutions NY, L.L.C.	Delaware	Limited Liability Company
Roldan Block NY, LLC	Delaware	Limited Liability Company
Rosenstrauss Applications V, LLC	Delaware	Limited Liability Company
Schukhaus Group GmbH, LLC	Delaware	Limited Liability Company
Schulkort Trio Limited Liability Company	Delaware	Limited Liability Company
Seradeaux Assets Limited Liability Company	Delaware	Limited Liability Company
Shinsaka Investments Ltd., LLC	Delaware	Limited Liability Company
Sokia Mgmt. Limited Liability Company	Delaware	Limited Liability Company
SR Adram Research AG LLC	Delaware	Limited Liability Company
Sulvanuss Capital L.L.C.	Delaware	Limited Liability Company

Phyllis Turner-Brim

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VP Chief IP Counsel

Byron E Springer Jr

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

	<b>Jurisdiction of Formation</b>	<b>Type of Entity</b>
TaffCo Three Fund, L.L.C.	Delaware	Limited Liability Company
Tajitshu Transfer Limited Liability Company	Delaware	Limited Liability Company
Tamakotomo Holdings Co. L.L.C.	Delaware	Limited Liability Company
Tarabunk Fund Limited Liability Company	Delaware	Limited Liability Company
Tarofiss Data Limited Liability Company	Delaware	Limited Liability Company
Tarquin Consulting AB, LLC	Delaware	Limited Liability Company
Teigel Processing AB, L.L.C.	Delaware	Limited Liability Company
Thes Investments Limited Liability Company	Delaware	Limited Liability Company
Tijemiksho Data, LLC	Delaware	Limited Liability Company
Tokashina Holdings Ltd., LLC	Delaware	Limited Liability Company
Tutko Networks Co., L.L.C.	Delaware	Limited Liability Company
Two Software Foundation, L.L.C.	Delaware	Limited Liability Company
Tysab Solutions Group Ltd., LLC	Delaware	Limited Liability Company
Ubergraff Ughif GmbH, LLC	Delaware	Limited Liability Company
Ucetrans KG, Limited Liability Company	Delaware	Limited Liability Company
Urensch Assets Limited Liability Company	Delaware	Limited Liability Company
Vadarro Services Limited Liability Company	Delaware	Limited Liability Company
Valkamari Remote Limited Liability Company	Delaware	Limited Liability Company
Valparan Development LLC	Delaware	Limited Liability Company
Valpolare Holdings, LLC	Delaware	Limited Liability Company
vanCloos AG, Limited Liability Company	Delaware	Limited Liability Company
Vaxefuile Data, LLC	Delaware	Limited Liability Company
Veltra Remote DE, L.L.C.	Delaware	Limited Liability Company
Vicetta Pac Co. L.L.C.	Delaware	Limited Liability Company
Vintell Applications NY, LLC	Delaware	Limited Liability Company
Vintomie Networks B.V., LLC	Delaware	Limited Liability Company
Viviana Research LLC	Delaware	Limited Liability Company
Voanesse P.E. Facility LLC	Delaware	Limited Liability Company
Volex Properties L.L.C.	Delaware	Limited Liability Company
Vonqualis Holdings Co. LLC	Delaware	Limited Liability Company
Vonshire Technologies L.L.C.	Delaware	Limited Liability Company
Voorkees Enterprises A.B. LLC	Delaware	Limited Liability Company
Vumtemra, Ashton, Coll PC, LLC	Delaware	Limited Liability Company
W. IL Investments I, LLC	Delaware	Limited Liability Company
Wakisoni Investments PA, L.L.C.	Delaware	Limited Liability Company
Wambarin Applications AB, L.L.C.	Delaware	Limited Liability Company
Wasinowski Procter, LLC	Delaware	Limited Liability Company
Webler Solutions, LLC	Delaware	Limited Liability Company
Wenibula Port Pte., LLC	Delaware	Limited Liability Company
Winstate Investments Limited, LLC	Delaware	Limited Liability Company
Wisantra Networks, LLC	Delaware	Limited Liability Company
Wispo Software Limited Liability Company	Delaware	Limited Liability Company
Wisterium Development LLC	Delaware	Limited Liability Company
Wolkoski Mgmt. LLC	Delaware	Limited Liability Company

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*The Non-Surviving Entities – continuing*

	Jurisdiction of Formation	Type of Entity
Woodside Crest NY, LLC	Delaware	Limited Liability Company
Woshenchester Solutions LLC	Delaware	Limited Liability Company
Xalotroff Fund V, Limited Liability Company	Delaware	Limited Liability Company
Xialan Chi Ltd., LLC	Delaware	Limited Liability Company
Xiloprem Tre Limited Liability Company	Delaware	Limited Liability Company
Xilushua Networks Limited Liability Company	Delaware	Limited Liability Company
Xinshu Management, L.L.C.	Delaware	Limited Liability Company
Xolkomar Enterprises L.L.C.	Delaware	Limited Liability Company
Xoram Development, LLC	Delaware	Limited Liability Company
Xugave Holding DE LLC	Delaware	Limited Liability Company
Yaghashimi Foundation Ltd., LLC	Delaware	Limited Liability Company
Yakimishu Co. Ltd., L.L.C.	Delaware	Limited Liability Company
Yaszistra Fund III, LLC	Delaware	Limited Liability Company
Yolab Networks, L.L.C.	Delaware	Limited Liability Company
Yorall Research Limited Liability Company	Delaware	Limited Liability Company
Zanni Assets Limited Liability Company	Delaware	Limited Liability Company
Zavaltorn Technologies LLC	Delaware	Limited Liability Company
Ziti Technologies Limited Liability Company	Delaware	Limited Liability Company
Zoltas Enterprises AG LLC	Delaware	Limited Liability Company
Sansocca Alandro A.B., 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 Callahan Cellular L.L.C.

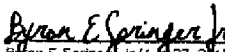
4. The Certificate of Formation of Callahan Cellular L.L.C. shall be the Certificate of Formation of the surviving limited liability company.

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, dated August 28, 2015.

CALLAHAN CELLULAR L.L.C.

  
By: Byron E. Springer Jr. (Aug 27, 2015)  
Name: Byron E Springer Jr  
Its: Assistant Secretary

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