

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CUFER ASSET LTD. L.L.C.	11/26/2019

RECEIVING PARTY DATA

Name:	INTELLECTUAL VENTURES ASSETS 161 LLC
Street Address:	251 LITTLE FALLS DRIVE
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19808

PROPERTY NUMBERS Total: 112

Property Type	Number
Patent Number:	6744421
Patent Number:	6680728
Patent Number:	6545667
Patent Number:	6023686
Patent Number:	5794219
Patent Number:	6167386
Patent Number:	7277867
Patent Number:	7848958
Patent Number:	6296489
Patent Number:	7035839
Patent Number:	7493307
Patent Number:	6188766
Patent Number:	6477277
Patent Number:	6600509
Patent Number:	6298328
Patent Number:	6427164
Patent Number:	6674461
Patent Number:	6654499
Patent Number:	6144771
Patent Number:	6400847

PATENT

Property Type	Number
Patent Number:	6028921
Patent Number:	6295351
Patent Number:	6324269
Patent Number:	6453031
Patent Number:	6807258
Patent Number:	6404875
Patent Number:	6993122
Patent Number:	5991377
Patent Number:	6853650
Patent Number:	6976258
Patent Number:	RE42214
Patent Number:	6532476
Patent Number:	6862599
Patent Number:	6307832
Patent Number:	6577575
Patent Number:	6487148
Patent Number:	6504805
Patent Number:	6515959
Patent Number:	6624978
Patent Number:	6560192
Patent Number:	6396783
Patent Number:	6407884
Patent Number:	6827802
Patent Number:	6072827
Patent Number:	6108346
Patent Number:	6356559
Patent Number:	6185415
Patent Number:	6505039
Patent Number:	7747243
Patent Number:	8200190
Patent Number:	6023254
Patent Number:	6292176
Patent Number:	6686928
Patent Number:	7173621
Patent Number:	7710411
Patent Number:	6415188
Patent Number:	6922664
Patent Number:	6832178

Property Type	Number
Patent Number:	6356874
Patent Number:	5983200
Patent Number:	6108640
Patent Number:	5915119
Patent Number:	6178413
Patent Number:	7031960
Patent Number:	RE43391
Patent Number:	5913226
Patent Number:	6188787
Patent Number:	6661906
Patent Number:	5923951
Patent Number:	6005240
Patent Number:	6005262
Patent Number:	6067307
Patent Number:	D476979
Patent Number:	D476980
Patent Number:	D476981
Patent Number:	D476978
Patent Number:	D476982
Patent Number:	D477312
Patent Number:	D479828
Patent Number:	D479829
Patent Number:	D490382
Patent Number:	6954814
Patent Number:	7231482
Patent Number:	7487282
Patent Number:	7185131
Patent Number:	6137868
Patent Number:	5877744
Patent Number:	6026140
Application Number:	09379646
Application Number:	09968105
Application Number:	09653838
Application Number:	07457689
Application Number:	10167988
Application Number:	60091942
Application Number:	60020776
Application Number:	10338801

Property Type	Number
Application Number:	60083349
Application Number:	60098297
Application Number:	10796871
Application Number:	07856525
Application Number:	11058780
Application Number:	12508405
Application Number:	10051090
Application Number:	60027930
Application Number:	60031910
Application Number:	60035189
Application Number:	60056498
Application Number:	60056497
Application Number:	11748318
Application Number:	60138360
Application Number:	60520900
Application Number:	60052061

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Address Line 4: ATLANTA, GEORGIA 30309

ATTORNEY DOCKET NUMBER:	11206-001GEN
NAME OF SUBMITTER:	LAWRENCE A. AARONSON
SIGNATURE:	/Lawrence A. Aaronson/
DATE SIGNED:	02/10/2020

Total Attachments: 24

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ASSIGNMENT OF RIGHTS IN CERTAIN ASSETS

For good and valuable consideration, the receipt of which is hereby acknowledged, Cufer Asset Ltd. L.L.C., a Delaware limited liability company, having an address at 251 Little Falls Drive, Wilmington, DE 19808 (“**Assignor**”), does hereby sell, assign, transfer, and convey unto Intellectual Ventures Assets 161 LLC, a Delaware limited liability company, having an address at 251 Little Falls Drive, Wilmington, DE 19808 (“**Assignee**”), or its designees, the right, title, and interest in and to any and all of the following provisional patent applications, patent applications, patents, and other governmental grants or issuances of any kind (the “**Certain Assets**”):

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(09/379646)	US	(8/23/1999)	Cursor Control Device For Convenient And Ergonomic Hand-Held Or Work Surface Use David M. Lilenfeld
6744421 (10/367153)	US	6/1/2004 (2/19/2003)	Apparatus For Convenient And Comfortable Cursor Control Device Lilenfeld, David M.
6680728 (09/489796)	US	1/20/2004 (1/24/2000)	Cursor Control Device For Convenient And Ergonomic Hand-Held Or Work-Surface Use Lilenfeld, David Michael
6545667 (09/657406)	US	4/8/2003 (9/8/2000)	Apparatus For A Convenient And Comfortable Cursor Control Device Lilenfield, David M.
6023686 (09/092604)	US	2/8/2000 (6/5/1998)	Method For Conducting An On-Line Bidding Session With Bid Pooling Brown, Stephen J.
5794219 (08/603131)	US	8/11/1998 (2/20/1996)	Method Of Conducting An On-Line Auction With Bid Pooling Brown, Stephen J.
6167386 (09/304446)	US	12/26/2000 (5/3/1999)	Method For Conducting An On-Line Bidding Session With Bid Pooling Brown, Stephen J.
7277867 (09/653664)	US	10/2/2007 (9/1/2000)	Method For Conducting An On-Line Bidding Session With Bid Pooling

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Stephen Brown , Woodside, Ca (
7848958 (11/732155)	US	12/7/2010 (4/2/2007)	Method For Conducting An On-Line Bidding Session With Bid Pooling Brown, Stephen J.
6296489 (09/339462)	US	10/2/2001 (6/23/1999)	System For Sound File Recording, Analysis, And Archiving Via The Internet For Language Training And Other Applications Blass, Laurie J.
(09/968105)	US	(9/29/2001)	System For Sound File Recording, Analysis, And Archiving Via The Internet For Language Training And Other Applications Blass, Laurie J.
(PCT/US2000/017218)	WO	(6/22/2000)	System For Sound File Recording, Analysis, And Archiving Via The Internet For Language Training And Other Applications Blass, Laurie J.
(AU02522/98)	AU	(3/24/1998)	Document Management Extension Software Unable To Verify
AU752293 (AU30188/99)	AU	9/12/2002 (3/24/1999)	Document Management Extension Software Gillespie David
(EP99911517.3)	EP	(3/24/1999)	Document Management Extension Software Gillespie David
7035839 (09/646946)	US	4/25/2006 (3/24/1999)	Document Management Extension Software Gillespie, David
7493307 (11/366309)	US	2/17/2009 (3/2/2006)	Document Management Extension Software Gillespie, David
(PCT/AU1999/000201)	WO	(3/24/1999)	Document Management Extension Software Gillespie David

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6188766 (08/810913)	US	2/13/2001 (3/5/1997)	Apparatus And Method For Confirming, Timestamping, And Archiving Printer And Telecopier Transmissions Kocher, Paul C.
(09/653838)	US	(9/1/2000)	Apparatus And Method For Confirming, Timestamping, And Archiving Printer And Telecopier Transmissions Kocher, Paul C.
DE3881525.7 (DE3881525.7)	DE	6/2/1993 (6/27/1988)	Growth Of Semiconductor Single Crystals Hurle Donald Thomas James
EP0366698 (EP88905927.5)	EP	6/2/1993 (6/27/1988)	Growth Of Semiconductor Single Crystals Hurle Donald Thomas James
(GB8715327)	GB	(6/30/1987)	Single Crystal Growing Unable To Verify
GB2206424 (GB8815266.5)	GB	7/10/1991 (6/27/1988)	Single Crystal Growing Hurle, Donald Thomas J.
JP2614298 (JP63-505531)	JP	2/27/1997 (6/27/1988)	Growth Of Semiconductor Single Crystals Unable To Verify
(PCT/GB1988/000505)	WO	(6/27/1988)	Growth Of Semiconductor Single Crystals Hurle Donald Thomas James
(07/457689)	US	(6/27/1988)	Growth Of Semiconductor Single Crystals Donald T. J. Hurle
GB0366698 (GB88905927.5)	GB	6/2/1993 (6/27/1988)	Growth Of Semiconductor Single Crystals Hurle Donald Thomas James
FR0366698 (FR88905927.5)	FR	6/2/1993 (6/27/1988)	Growth Of Semiconductor Single Crystals Hurle Donald Thomas James

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
AU742625 (AU081228/98)	AU	5/2/2002 (6/26/1998)	Data Encoding System Chippendale Paul Ian
CA2264742 (CA2264742)	CA	3/27/2007 (6/26/1998)	Data Encoding System Chippendale Paul Ian
EP0929969 (EP98930955.4)	EP	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Paul Ian
(GB9714124.6)	GB	(7/4/1997)	Data Encoding System Honary Bahram
JP4173918 (JP11-506622)	JP	8/22/2008 (6/26/1998)	Data Encoding System Chippendale Paul Ian
6477277 (09/254146)	US	11/5/2002 (6/26/1998)	Data Encoding System Chippendale, Paul
(PCT/GB1998/001877)	WO	(6/26/1998)	Data Encoding System Chippendale Paul Ian
BE0929969 (BE98930955.4)	BE	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Paul Ian
GB0929969 (GB98930955.4)	GB	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Paul
CH0929969 (CH98930955.4)	CH	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Paul Ian
FR0929969 (FR98930955.4)	FR	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Paul Ian
IT0929969 (IT98930955.4)	IT	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Paul Ian

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
NL0929969 (NL98930955.4)	NL	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Paul Ian
DE69810070.0 (DE69810070.0)	DE	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Ian-Lancaster Comm
KR10-0549976 (KR10-1999-7001840)	KR	2/1/2006 (6/26/1998)	Data Encoding System Chippendale Paul Ian
GB2332330 (GB9904338.2)	GB	12/11/2002 (6/26/1998)	Data Encoding System Chippendale Paul
EP0928465 (EP97935697.9)	EP	11/7/2007 (8/7/1997)	Detection System Radford Charles John
(GB9616686.3)	GB	(8/8/1996)	Detection System Radford Charles John
GB2328741 (GB9825151.5)	GB	7/5/2000 (8/7/1997)	Detection System Radford Charles John
6600509 (09/194207)	US	7/29/2003 (8/7/1997)	Detection System Radford Charles John
(PCT/GB1997/002215)	WO	(8/7/1997)	Detection System Radford Charles John
JP4644320 (JP10-509526)	JP	12/10/2010 (8/7/1997)	Detection System Radford Charles John
DE69738270.2 (DE69738270.2)	DE	11/7/2007 (8/7/1997)	Detection System Radford Charles John
FR0928465 (FR97935697.9)	FR	11/7/2007 (8/7/1997)	Detection System Radford Charles John

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6298328 (09/048731)	US	10/2/2001 (3/26/1998)	Apparatus, Method, And System For Sizing Markets Healy, Eileen M.
6427164 (09/338834)	US	7/30/2002 (6/23/1999)	Systems And Methods For Automatically Forwarding Electronic Mail When The Recipient Is Otherwise Unknown Reilly, Robert H.
(10/167988)	US	(6/11/2002)	Systems And Methods For Automatically Forwarding Electronic Mail When The Recipient Is Otherwise Unknown Reilly, Robert H.
(PCT/US2002/019260)	WO	(6/17/2002)	Systems And Methods For Automatically Forwarding Electronic Mail When The Recipient Is Otherwise Unknown Reilly Robert H
6674461 (09/346775)	US	1/6/2004 (7/7/1999)	Extended View Morphing Klapman, Matthew H.
(60/091942)	US	(7/7/1998)	Geomorphing: Extending View Morphing To Cover Areas, Volumes, And Video Streams Matthew H. Klapman
6654499 (10/160628)	US	11/25/2003 (6/3/2002)	Method And Apparatus For Encoding And Decoding Images Li, Weiping
6144771 (08/884440)	US	11/7/2000 (6/27/1997)	Method And Apparatus For Encoding And Decoding Images Li, Weiping
6400847 (09/645240)	US	6/4/2002 (8/24/2000)	Method And Apparatus For Encoding And Decoding Images Li, Weiping

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(60/020776)	US	(6/28/1996)	Backward Compatible Vt Coding Method For Images And Video Weiping Li
CA2239764 (CA2239764)	CA	5/1/2001 (6/5/1998)	Method And System For Delivery Of A Message To A Display Unit Koch Robert A
6028921 (08/873341)	US	2/22/2000 (6/11/1997)	Method And System For Delivery Of A Message To A Display Unit Malik, Dale W.
6295351 (09/065810)	US	9/25/2001 (4/23/1998)	System And Method For Invocation Of A Check Of A Telecommunications Application Through Use Of A Call Probe Malik, Dale W.
CA2276536 (CA2276536)	CA	11/26/2002 (6/28/1999)	Method And System For Billing Remote Calls As If Made From A Primary Line Malik Dale W
6324269 (09/139854)	US	11/27/2001 (8/25/1998)	Method And System For Billing Remote Calls As If Made From A Primary Line Malik, Dale W.
6453031 (09/918672)	US	9/17/2002 (7/31/2001)	Method And System For Billing Remote Calls As If Made From A Primary Line Malik, Dale W.
6807258 (10/205292)	US	10/19/2004 (7/25/2002)	Method And System For Billing Remote Calls As If Made From A Primary Line Malik, Dale W.
6404875 (09/317217)	US	6/11/2002 (5/24/1999)	System And Method For Consumer-Initiated Business Solicitation Calling System Malik, Dale W.

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6993122 (10/135406)	US	1/31/2006 (5/1/2002)	System And Method For Consumer-Initiated Business Solicitation Calling System Malik, Dale W.
(PCT/US2000/013995)	WO	(5/23/2000)	System And Method For Consumer-Initiated Business Solicitation Calling System Malik Dale W
CA2244543 (CA2244543)	CA	1/8/2002 (8/5/1998)	System And Method For Manipulating Data Fields In A Call Structure For Synchronizing Billing Information And Retaining Original Calling Party Information Dale W. Malik
5991377 (08/909417)	US	11/23/1999 (8/11/1997)	System And Method For Manipulating Data Fields In A Call Structure For Synchronizing Billing Information And Retaining Original Calling Party Information Malik, Dale W.
(DE19804564.6)	DE	(2/5/1998)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of Scaled Data Flow Hutzelmann Holger Dipl Ing
DE59900273.5 (DE59900273.5)	DE	9/19/2001 (1/14/1999)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of Scaled Data Flow Hutzelmann Holger
EP1050186 (EP99945711.2)	EP	9/19/2001 (1/14/1999)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of Scaled Data Flow Hutzelmann Holger
JP3450298 (JP2000-531034)	JP	7/11/2003 (1/14/1999)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of A

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Scaled Data Flow Hutzelmann, Holger
6853650 (09/601651)	US	2/8/2005 (1/14/1999)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of A Scaled Data Flow Hutzelmann, Holger
(PCT/EP1999/000186)	WO	(1/14/1999)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of A Scaled Data Flow Hutzelmann, Holger
FR1050186 (FR99945711.2)	FR	9/19/2001 (1/14/1999)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of A Scaled Data Flow Hutzelmann, Holger
GB1050186 (GB99945711.2)	GB	9/19/2001 (1/14/1999)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of A Scaled Data Flow Hutzelmann, Holger
AT205992 (AT99945711.2)	AT	9/19/2001 (1/14/1999)	Communication Network, Method For Transmitting A Signal, Network Connecting Unit And Method For Adjusting The Bit Rate Of Scaled Data Flow Hutzelmann, Holger
(AU71782/00)	AU	(11/23/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Keshav Srinivasan
(CA2326207)	CA	(11/17/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal Pawan

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(CN00134475.7)	CN	(11/30/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Gojar Pawan
(EP00310628.3)	EP	(11/30/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal Pawan
(IL139663)	IL	(11/14/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal, Pawan
(IN1000/MAS/2000)	IN	(11/24/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal, Pawan
(JP2000-365683)	JP	(11/30/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal Pawan
(SG200006743-9)	SG	(11/21/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal, Pawan
(TW089124780)	TW	(11/22/2000)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal, Pawan
6976258 (09/452286)	US	12/13/2005 (11/30/1999)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal, Pawan
RE42214 (11/956246)	US	3/8/2011 (12/13/2007)	Providing Quality Of Service Guarantees To Virtual Hosts Goyal, Pawan
6532476 (09/438328)	US	3/11/2003 (11/13/1999)	Software Based Methodology For The Storage And Retrieval Of Diverse Information

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			King, Kevin D.
6862599 (10/176257)	US	3/1/2005 (6/20/2002)	Software-Based Methodology For The Storage And Retrieval Of Diverse Information King, Kevin D.
6307832 (09/304527)	US	10/23/2001 (5/4/1999)	An Optical Storage System With A Head Cleaning Mechanism Based On A Position-Controllable Optical Interfacing Surface In An Optical Head Novotny, Vlad
6577575 (09/961633)	US	6/10/2003 (9/21/2001)	Head Cleaning In Optical Disk Drives Novotny, Vlad
(PCT/US2000/012509)	WO	(5/4/2000)	Optical Storage System With Head Cleaning Mechanism Novotny Vlad
6487148 (09/368544)	US	11/26/2002 (8/4/1999)	Edge Detection For Servo Signals In Optical Storage System Hsieh, Yung-Chieh
6504805 (09/360298)	US	1/7/2003 (7/22/1999)	Track Identification Generation For Optical Disk Burroughs, Alan Claude
(10/338801)	US	(1/7/2003)	Track Identification Generation For Optical Disk Inventor Information Unavailab
6515959 (09/470259)	US	2/4/2003 (12/22/1999)	Ramp Motion Mechanism Fairchild, Scot C.
6624978 (10/247961)	US	9/23/2003 (9/20/2002)	Technique For Loading And Unloading A Read/Write Head By Implementing A Ramp Motion Mechanism In A Disk Drive Fairchild, Scot C.
6560192 (09/272769)	US	5/6/2003 (3/19/1999)	Method And Apparatus For Dampening Disk Vibrations

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Bonn, Brian
6396783 (09/405511)	US	5/28/2002 (9/23/1999)	Mechanism For Controlling Spacing Between Optical Head And Storage Medium In Optical Storage Systems Bell, Jr., Bernard W.
(MYPI9901639)	MY	(4/27/1999)	An Optical Recording Head Having A Solid Immersion Lens Osborne John R
(PH1-1999-00966)	PH	(4/28/1999)	An Optical Recording Head Having A Solid Immersion Lens Osborne John R
(TW088106736)	TW	(4/27/1999)	An Optical Recording Head Having A Solid Immersion Lens Osborne John R
6407884 (09/292762)	US	6/18/2002 (4/14/1999)	Optical Head With Solid Immersion Lens And Varying Cross Section Coil Osborne, John R.
6827802 (10/176283)	US	12/7/2004 (6/18/2002)	Optical Recording Head Having A Solid Immersion Lens Osborne, John R.
(60/083349)	US	(4/28/1998)	Planar Coil Design For Recording Head With Solid Immersion Lens John R. Osborne
(PCT/US1999/009124)	WO	(4/27/1999)	An Optical Recording Head Having A Solid Immersion Lens Osborne John R
6072827 (08/921142)	US	6/6/2000 (8/29/1997)	Automatic Baud Rate Detection Krulce, Darrell

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6108346 (09/268099)	US	8/22/2000 (3/13/1999)	Combined Synchronous And Asynchronous Message Transmission Doucette, John
6356559 (09/578554)	US	3/12/2002 (5/25/2000)	Combined Synchronous And Asynchronous Message Transmission Doucette, John
(60/098297)	US	(8/27/1998)	Combined Synchronous And Asynchronous Message Transmission John Doucette
(PCT/US1999/018370)	WO	(8/12/1999)	Combined Synchronous And Asynchronous Message Transmission Doucette John
6185415 (08/445576)	US	2/6/2001 (5/22/1995)	Call Security System Boatwright, John T.
6505039 (09/712701)	US	1/7/2003 (11/13/2000)	Call Security System Which Detects Fraud By Examination Of Call History Boatwright, John T.
7747243 (10/160357)	US	6/29/2010 (5/31/2002)	Call Security System Boatwright, John T.
(10/796871)	US	(3/8/2004)	Call Security System Boatwright, John T.
8200190 (12/783515)	US	6/12/2012 (5/19/2010)	Call Security System Boatwright, John T.
(07/856525)	US	(3/24/1992)	Call Security System John T. Boatwright
6023254 (08/798203)	US	2/8/2000 (2/10/1997)	Projection System For A Computer Johnson, Earnest J.

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6292176 (08/606615)	US	9/18/2001 (2/26/1996)	Method And System For Displaying Textual Information Reber, William L.
6686928 (09/815531)	US	2/3/2004 (3/23/2001)	Method And System For Displaying Textual Information Reber, William L
7173621 (10/769826)	US	2/6/2007 (2/2/2004)	Method And System For Displaying Textual Information Reber, William L.
7710411 (11/670868)	US	5/4/2010 (2/2/2007)	Method And System For Displaying Textual Information Reber, William L.
(PCT/US1996/018803)	WO	(11/20/1996)	Method And System For Displaying Textual Information Reber William L
TWI087948 (TW085114667)	TW	11/5/1997 (11/27/1996)	Method And System For Displaying Textual Information Reber William L
(IN2904/DEL/1996)	IN	(12/20/1996)	Method And System For Displaying Textual Information Reber William L
(AU19970010817)	AU	(11/20/1996)	Method And System For Displaying Textual Information Reber William L
6415188 (09/220784)	US	7/2/2002 (12/23/1998)	Method And Apparatus For Multi-Sensor Processing Fernandez, Dennis Sunga
(11/058780)	US	(2/15/2005)	Method And Apparatus For Multi-Sensor Processing

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Fernandez, Dennis S.
(12/508405)	US	(7/23/2009)	Object Condition Sensing Fernandez, Dennis S.
6922664 (09/949257)	US	7/26/2005 (9/7/2001)	Method And Apparatus For Multi-Sensor Processing Fernandez, Dennis S.
6832178 (09/949322)	US	12/14/2004 (9/7/2001)	Method And Apparatus For Multi-Sensor Processing Fernandez, Dennis S.
AT171328 (AT95904699.6)	AT	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
BE0738446 (BE95904699.6)	BE	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
CA2178912 (CA2178912)	CA	7/8/2003 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
CH0738446 (CH95904699.6)	CH	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
DE69413420.1 (DE69413420.1)	DE	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
DK0738446 (DK95904699.6)	DK	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
EP0738446 (EP95904699.6)	EP	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
ES0738446 (ES95904699.6)	ES	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald

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FI109748 (FI962479)	FI	9/30/2002 (12/16/1994)	Method And System For Verifying Documents Oehrn Harald
FR0738446 (FR95904699.6)	FR	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
GB0738446 (GB95904699.6)	GB	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
GR0738446 (GR95904699.6)	GR	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
IE0738446 (IE95904699.6)	IE	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
IT0738446 (IT95904699.6)	IT	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
(JP06-517036)	JP	(12/16/1994)	Method And System For Ordering Services Unable To Verify
LU0738446 (LU95904699.6)	LU	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
MC0738446 (MC95904699.6)	MC	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
NL0738446 (NL95904699.6)	NL	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
NO179888 (NO934696)	NO	5/27/1998 (12/17/1993)	Method And System For Ordering Services Ihrn Harald
PT0738446 (PT95904699.6)	PT	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
SE0738446 (SE95904699.6)	SE	9/16/1998 (12/16/1994)	Method And System For Ordering Services Ohrn Harald
6356874 (08/663055)	US	3/12/2002 (12/16/1994)	Method And System For Ordering Services .O Slashed.Hrn, Harald
(10/051090)	US	(1/22/2002)	Method And System For Ordering Services Ohrn, Harald
(PCT/NO1994/000206)	WO	(12/16/1994)	Method And System For Ordering Services Oehrn Harald
(AU19970048147)	AU	(10/9/1997)	Intelligent Agent For Executing Delegated Tasks Slotznick Benjamin
5983200 (08/944923)	US	11/9/1999 (10/6/1997)	Intelligent Agent For Executing Delegated Tasks Slotznick, Benjamin
6108640 (09/006681)	US	8/22/2000 (1/13/1998)	System For Calculating Occasion Dates And Converting Between Different Calendar Systems, And Intelligent Agent For Using Same Slotznick, Benjamin
(60/027930)	US	(10/9/1996)	Apparatus For Accomplishing Delegated Tasks Benjamin Slotznick
(60/031910)	US	(11/22/1996)	Apparatus For Accomplishing Delegated Tasks Benjamin Slotznick
(PCT/US1997/018307)	WO	(10/9/1997)	Intelligent Agent For Executing Delegated Tasks Slotznick Benjamin
(AU19980062403)	AU	(1/13/1998)	System For Calculating Occasion Dates And Converting Between Different Calendar Systems, And Intelligent Agent For Using Same Slotznick Benjamin

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(60/035189)	US	(1/14/1997)	Apparatus For Calculating Holiday Dates And Converting Between Calendar Systems Benjamin Slotznick
(PCT/US1998/000628)	WO	(1/13/1998)	System For Calculating Occasion Dates And Converting Between Different Calendar Systems, And Intelligent Agent For Using Same Slotznick Benjamin
EP0835008 (EP97306854.7)	EP	4/6/2005 (9/4/1997)	Computer Networks And Methods Of Their Control Cone Kevin A
(JP09-267106)	JP	(9/30/1997)	Network And Network Control Method Cone Kevin A
5915119 (08/724653)	US	6/22/1999 (10/1/1996)	Proxy Terminal For Network Controlling Of Power Managed User Terminals In Suspend Mode Cone, Kevin A.
GB0835008 (GB97306854.7)	GB	4/6/2005 (9/4/1997)	Computer Networks And Methods Of Their Control Cone Kevin A
DE69732948.8 (DE69732948.8)	DE	4/6/2005 (9/4/1997)	Computer Networks And Methods Of Their Control Cone Kevin A
FR0835008 (FR97306854.7)	FR	4/6/2005 (9/4/1997)	Computer Networks And Methods Of Their Control Cone Kevin A
6178413 (09/082419)	US	1/23/2001 (5/20/1998)	Database Program With Automatic Creation Of User Features Costin, Darryl
7031960 (09/703482)	US	4/18/2006 (10/31/2000)	Database Program With Automatic Creation Of User Features

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Costin, Darryl J.
RE43391 (11/965372)	US	5/15/2012 (12/27/2007)	Database Program With Automatic Creation Of User Features Costin, Darryl J.
(JP08-050963)	JP	(2/14/1996)	Snoop Cache Memory Control System Sato Masaki
5913226 (08/779154)	US	6/15/1999 (1/3/1997)	Snoop Cache Memory Control System And Method Sato, Masaki
EP0800123 (EP97105656.9)	EP	1/9/2002 (4/5/1997)	Image Recognition Method And Device And Copier And Scanner Employing Same Ohmae Kouichi
(JP08-108637)	JP	(4/5/1996)	Method, Device For Recognizing Image, Copy Machine Mounting The Same And Scanner Omae Koichi
6188787 (08/826701)	US	2/13/2001 (4/7/1997)	Image Recognition Method And Device And Copier And Scanner Employing Same Ohmae, Kouichi
FR0800123 (FR97105656.9)	FR	1/9/2002 (4/5/1997)	Image Recognition Method And Device And Copier And Scanner Employing Same Ohmae Kouichi
GB0800123 (GB97105656.9)	GB	1/9/2002 (4/5/1997)	Image Recognition Method And Device And Copier And Scanner Employing Same Ohmae Kouichi
IT0800123 (IT97105656.9)	IT	1/9/2002 (4/5/1997)	Image Recognition Method And Device And Copier And Scanner Employing Same Ohmae Kouichi

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
DE69709480.4 (DE69709480.4)	DE	1/9/2002 (4/5/1997)	Image Recognition Method And Device And Copier And Scanner Employing Same Ohmae Kouichi
EP0849707 (EP97122521.4)	EP	11/16/2005 (12/19/1997)	Image Creating Apparatus Kawade Masato
(JP09-226329)	JP	(8/22/1997)	Device And Method For Forming Image, And Image Forming Program Storage Medium Kawade Masahito
(JP09-226330)	JP	(8/22/1997)	Image Forming Device, Its Method And Image Forming Program Storage Medium Kawade Masahito
(JP09-226331)	JP	(8/22/1997)	Image Forming Device, Its Method And Image Forming Program Storage Medium Kawade Masahito
6661906 (08/993627)	US	12/9/2003 (12/18/1997)	Image Creating Apparatus Kawade, Masato
GB0849707 (GB97122521.4)	GB	11/16/2005 (12/19/1997)	Image Creating Apparatus Kawade Masato
(JP08-339246)	JP	(12/19/1996)	Device And Method For Forming Image, And Image Forming Program Storage Medium Kawade Masahito
(JP08-345423)	JP	(12/25/1996)	Image Forming Device, Its Method And Image Forming Program Storage Medium Kawade Masahito
(JP08-345426)	JP	(12/19/1996)	Image Forming Device, Its Method And Image Forming Program Storage Medium Kawade Masahito

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
DE69734640.4 (DE69734640.4)	DE	11/16/2005 (12/19/1997)	Image Creating Apparatus Kawade Masato
(JP09-226328)	JP	(8/22/1997)	Image Forming Device, Its Method And Image Forming Program Storage Medium Kawade Masahito
(JP08-345424)	JP	(12/25/1996)	Image Forming Device, Its Method And Image Forming Program Storage Medium Kawade Masahito
JP3223138 (JP09-201314)	JP	8/17/2001 (7/28/1997)	Manufacture Of Product Comprising Photoelectric Device Goossen, Keith Wayne
5923951 (08/688131)	US	7/13/1999 (7/29/1996)	Method Of Making A Flip-Chip Bonded Gaas- Based Opto-Electronic Device Goossen, Keith Wayne
6005240 (09/032545)	US	12/21/1999 (2/26/1998)	Triggered Receivers For Optoelectronic-Vlsi Circuits Krishnamoorthy, Ashok V
(60/056498)	US	(8/20/1997)	Triggered Receivers For Optoelectronic-Vlsi Krishnamoorthy, Ashok V
6005262 (09/014196)	US	12/21/1999 (1/27/1998)	Flip-Clip Bonded Vcsel Cmos Circuit With Silicon Monitor Detector Cunningham, John
(60/056497)	US	(8/20/1997)	Optoelectronic-Vlsi Circuit Consisting Of A Flip- Chip Bonded Vcsel, Cmos Circuit And Silicon Monitor Detector Cunningham, John
6067307 (09/096802)	US	5/23/2000 (6/12/1998)	Vertical Cavity Surface Emitting Laser Driving Circuit Krishnamoorthy, Ashok V

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
D476979 (29/157416)	US	7/8/2003 (3/18/2002)	Communication Module Dugas, Roger
D476980 (29/157420)	US	7/8/2003 (3/18/2002)	Communication Module Dugas, Roger
D476981 (29/157454)	US	7/8/2003 (3/18/2002)	Communication Module Dugas, Roger
D476978 (29/157414)	US	7/8/2003 (3/18/2002)	Communication Module Dugas, Roger
D476982 (29/161861)	US	7/8/2003 (6/4/2002)	Communication Interface Dugas, Roger
D477312 (29/157424)	US	7/15/2003 (3/18/2002)	Communication Module Dugas, Roger
D479828 (29/172257)	US	9/23/2003 (12/9/2002)	Inside-Out Heat Sink Dugas, Roger
D479829 (29/172258)	US	9/23/2003 (12/9/2002)	Inside-Out Heat Sink Dugas, Roger
D490382 (29/172246)	US	5/25/2004 (12/9/2002)	Inside-Out Heat Sink Dugas, Roger
6954814 (09/591258)	US	10/11/2005 (6/9/2000)	Method And System For Monitoring And Transmitting Utility Status Via Universal Communications Interface Leach, Mark
7231482 (11/245796)	US	6/12/2007 (10/7/2005)	Method And System For Monitoring And Transmitting Utility Status Via Universal Communications Interface Leach, Mark

<u>Patent or Application No.</u>	<u>Country</u>	<u>Grant Date Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
7487282 (11/671578)	US	2/3/2009 (2/6/2007)	Host-Client Utility Meter Systems And Methods For Communicating With The Same Leach, Mark A.
(11/748318)	US	(5/14/2007)	Systems And Methods For Monitoring And Transmitting Utility Status Information Via A Universal Communications Interface Mark Leach
7185131 (10/991789)	US	2/27/2007 (11/18/2004)	Host-Client Utility Meter Systems And Methods For Communicating With The Same Leach, Mark A.
(60/138360)	US	(6/10/1999)	Automated Meter Reading System Having Universal Communications Capabilities Mark A. Leach
(60/520900)	US	(11/18/2003)	Meter Communications Interface Board With Lan And Wan Capabilities Mark Leach , Macon, Ga
(PCT/US2004/038672)	WO	(11/18/2004)	Host-Client Utility Meter Systems And Methods For Communicating With The Same Leach Mark A
6137868 (09/105287)	US	10/24/2000 (6/25/1998)	Outage Notification Device Leach, Mark A.
(60/052061)	US	(7/9/1997)	Outage Notification Device Mark A Leach
5877744 (08/798388)	US	3/2/1999 (2/7/1997)	Single Button Control For Information Display Gaskill, Garold B.
(PCT/US1998/000506)	WO	(1/7/1998)	Single Button Control For Information Display Gaskill Garold B

<u>Patent or Application</u> <u>No.</u>	<u>Country</u>	<u>Grant Date</u> <u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6026140	US	2/15/2000	Low Power Programmable Ripple Counter
(09/063957)		(4/21/1998)	Owen, Jeffrey R.

Assignor assigns to Assignee all rights to the inventions, invention disclosures, and discoveries in the assets listed above, together, with the rights, if any, to revive prosecution of claims under such assets and to sue or otherwise enforce any claims under such assets for past, present or future infringement.

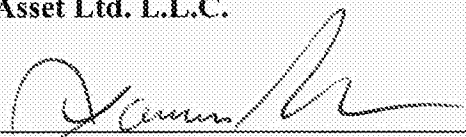
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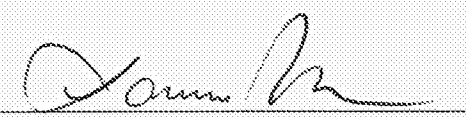
ASSIGNOR:

Cufer Asset Ltd. L.L.C.

By: 
Name: Lawrence Froeber
Title: Chief Financial Officer

ASSIGNEE:

Intellectual Ventures Assets 161 LLC

By: 
Name: Lawrence Froeber
Title: Chief Financial Officer