01/27/2020 505883990

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
INTELLECTUAL VENTURES ASSETS 157 LLC	12/30/2019

RECEIVING PARTY DATA

Name:	LIBERTY PATENTS LLC
Street Address:	2325 OAK ALLEY
City:	TYLER
State/Country:	TEXAS
Postal Code:	75703

PROPERTY NUMBERS Total: 15

Property Type	Number
Patent Number:	6894616
Patent Number:	6826587
Patent Number:	6667513
Patent Number:	6551872
Patent Number:	6577987
Patent Number:	6762124
Patent Number:	7216345
Patent Number:	RE42449
Application Number:	12420799
Application Number:	60122817
Application Number:	12104331
PCT Number:	US2002004290
PCT Number:	US2000005705
PCT Number:	US2001019307
PCT Number:	US2001019273

CORRESPONDENCE DATA

Fax Number: (713)581-3020

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.

Phone: 7135813000

> **PATENT** REEL: 051632 FRAME: 0225

505883990

Email: larry@ahtlawfirm.com

Correspondent Name: LARRY D. THOMPSON, JR.

Address Line 1: 4306 YOAKUM BLVD

Address Line 2: STE 450

Address Line 4: HOUSTON, TEXAS 77006

ATTORNEY DOCKET NUMBER: LIBERTY

NAME OF SUBMITTER: LARRY D. THOMPSON, JR.

SIGNATURE: /Larry D. Thompson, Jr. #43,952/

DATE SIGNED: 01/27/2020

Total Attachments: 6

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<u>Patent/Application</u> Number	Country	Issue Date/ Filing Date	<u>Title Of Patent</u> And First Named Inventor
Number	Country	Thing Date	And First Named Inventor
(GB9917856.8)	GB	(7/29/1999)	Piezoelectric Tag
			Forster, Ian James
(PCT/GB2000/002944)	wo	(7/31/2000)	Piezo-Electric Tag
			Forster, Ian James
AU781231	AU	5/12/2005	Piezo-Electric Tag
(AU63018/00)		(7/31/2000)	Forster, Ian James
(AU2005203609)	AU	(8/12/2005)	Piezo-Electric Tag
			Forster, Ian James
(CA2380534)	CA	(7/31/2000)	Piezo-Electric Tag
			Forster, Ian James
EP1206709	EP	6/7/2006	Piezo-Electric Tag
(EP00949745.4)		(7/31/2000)	Forster, Ian James
EP1691426	EP	4/30/2014	Piezo-Electric Transducers
(EP06011154.9)		(7/31/2000)	Forster, Ian James
6894616	US	5/17/2005	Piezo-Electric Tag
(10/048108)		(7/31/2000)	Forster, Ian James
FR2793971	FR	8/31/2001	Complex Number Multiplier
(FR9906425)		(5/20/1999)	Arndt Marylin

Patent/Application Number	Country	Issue Date/ Filing Date	Title Of Patent And First Named Inventor
IT1190344	IT	7/30/2003	Complex Number Multiplier
(IT00929626.0)		(5/18/2000)	Arndt Marylin
6826587	US	11/30/2004	Complex Number Multiplier
(09/979283)		(11/20/2001)	Luis Montalvo
FR2794898	FR	9/14/2001	Semiconductor Device With Compensated Threshold Voltage And Method For Making
(FR9907391)		(6/11/1999)	Same
			Gwoziecki Romain
6667513	US	12/23/2003	Semiconductor Device With Compensated Threshold Voltage And Method For Making
(10/018179)		(5/3/2002)	Same
			Thomas Skotnicki
FR2789804	FR	8/23/2002	Anisotropic Plasma Etching Of A Dielectric,
(FR9901925)		(2/17/1999)	Organic Polymer Material Joubert, Olivier
(JP2000-030132)	JP	(2/8/2000)	Anisotropic Etching Method For Organic Dielectric Polymer Material By Plasma Gas
			Joubert, Olivier
(EP00400363.8)	EP	(2/9/2000)	Anisotropic Plasma Etching Of A Dielectric, Organic Polymer Material
			Joubert, Olivier
6551872	US	4/22/2003	Method For Making Integrated Circuit Including
(09/642140)		(8/18/2000)	Interconnects With Enhanced Electromigration Resistance Using Doped Seed Layer And Integrated Circuits Produced Thereby
			James A. Cunningham
6577987	US	6/10/2003	Operational Monitoring For A Converter
(09/715019)		(11/20/2000)	Wenning, Guido
6762124	US	7/13/2004	Method For Patterning A Multilayered Conductor/Substrate Structure
(09/783122)		(2/14/2001)	Conductor Substitute

Patent/Application Number	Country	Issue Date/ Filing Date	<u>Title Of Patent</u> <u>And First Named Inventor</u>
			Kouroche Kian
(PCT/US2002/004290)	WO	(2/13/2002)	Method For Patterning A Multilayered Conductor/Substrate Structure
			Kouroche Kian
GB2389562	GB	8/14/2004	Method For Patterning A Multilayered Conductor/Substrate Structure
(GB0319660.7)		(2/13/2002)	Kouroche Kian
(12/420799)	US	(4/8/2009)	Method For Patterning A Multilayered Conductor/Substrate Structure
			Kian, Kouroche
TWI170084	TW	1/1/2003	Bi-Directional Low-Pass Filter For Use At User End Or Office End In Communication Netpctrk
(TW090116761)		(7/9/2001)	Her-Jun Chueh
TWI548906	TW	8/21/2003	Bi-Directional Low-Pass Filter For Use At User End Or Office End In Communication Netpctrk
(TW090116761A01)		(8/10/2001)	Her-Jun Chueh
CNZL02106525.X	CN	7/27/2005	Bi-Directional Low-Pass Filter For Use At User
(CN02106525.X)		(2/26/2002)	End Or Office End In Communication Network Her-Jun Chueh
(60/122817)	US	(3/4/1999)	Mpeg-Like Data Represented As Analog Video
			Robert Norman Hurst Jr.
(PCT/US2000/005705)	WO	(3/4/2000)	Method And Apparatus For Carrying Digital Data As Analog Video
			Hurst Robert Norman Jr
(PCT/CA2001/000712)	WO	(5/22/2001)	Processor Array And Parallel Data Processing Methods
			Strayer Jayson D
(IN1281/DEL/2002)	IN	(12/19/2002)	High Performance Interconnect Architecture For Fpgas

Patent/Application Number	Country	Issue Date/ Filing Date	<u>Title Of Patent</u> <u>And First Named Inventor</u>
			Bal, Ankur
(EP03104727.7)	EP	(12/16/2003)	High Performance Interconnect Architecture For Fpgas
			Bal Ankur
(12/104331)	US	(4/16/2008)	High Performance Interconnect Architecture For Field Programmable Gate Arrays
			Bal, Ankur
DE19947032.4	DE	2/23/2006	System For Controlling And Monitoring
(DE19947032.4)		(9/30/1999)	Telecommunication Terminals Connected To A Private Branch Exchange (PBX) Or A Wide Area Network (WAN)
			Langer Uwe
EP1089529	EP	11/23/2005	System For Controlling And Monitoring
(EP00120876.8)		(9/25/2000)	Telecommunication Terminals Connected To A Private Branch Exchange (PBX) Or A Wide Area Network (WAN)
			Schindel Frank
DE50011678.4	DE	11/23/2005	System For Controlling And Monitoring
(DE50011678.4)		(9/25/2000)	Telecommunication Terminals Connected To A Private Branch Exchange (PBX) Or A Wide Area Network (WAN)
			Schindel Frank
FR1089529	FR	11/23/2005	System For Controlling And Monitoring
(FR00120876.8)		(9/25/2000)	Telecommunication Terminals Connected To A Private Branch Exchange (PBX) Or A Wide Area Network (WAN)
			Schindel Frank
GB1089529	GB	11/23/2005	System For Controlling And Monitoring
(GB00120876.8)		(9/25/2000)	Telecommunication Terminals Connected To A Private Branch Exchange (PBX) Or A Wide Area Network (WAN)
			Schindel Frank

Patent/Application Number	Country	Issue Date/ Filing Date	Title Of Patent And First Named Inventor
IT1089529	IT	11/23/2005	System For Controlling And Monitoring
(IT00120876.8)		(9/25/2000)	Telecommunication Terminals Connected To A Private Branch Exchange (PBX) Or A Wide Area Network (WAN)
			Schindel Frank
(EP01106814.5)	EP	(3/19/2001)	Apparatus, Method And System For Synchronizing Slave System Operations To Master System Clocking Signals In A Master- Slave Asynchronous Communication System
			Matthias Reinert
(DE10047592.2)	DE	(9/26/2000)	Ventilation Device With Electromagnetic Coupling
			Ekkehard Pittius
(PCT/DE2001/003654)	WO	(9/21/2001)	Ventilation Device With Electromagnetic Coupling
			Ekkehard Pittius
EP1323224	EP	12/20/2006	Ventilation Device With Electromagnetic
(EP01978180.6)		(9/21/2001)	Coupling
			Ekkehard Pittius
FR1323224	FR	12/20/2006	Ventilation Device With Electromagnetic Coupling
(FR01978180.6)		(9/21/2001)	Ekkehard Pittius
(PCT/US2001/019307)	WO	(6/15/2001)	Floating Gate Transistor Having Buried Strained Silicon Germanium Channel Layer
			Kencke David L
(PCT/US2001/019273)	WO	(6/15/2001)	Vertical Channel Floating Gate Transistor Having Silicon Germanium Channel Layer
			Kencke David L
7216345	US	5/8/2007	Method And Apparatus For Protectively Operating A Data/Information Processing Device
(09/544492)		(4/7/2000)	Swain W. Porter

Patent/Application	~	Issue Date/	Title Of Patent
Number	Country	Filing Date	And First Named Inventor
KR10-0712327	KR	4/20/2007	Piezo-Electric Tag
(KR10-2002-7001252)		(7/31/2000)	Forster, Ian James
RE42449	US	6/14/2011	Piezo-Electric Tag
(11/804715)		(5/17/2007)	Forster, Ian James

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EXECUTED this 30th day of December 2019, to be effective as of December 30, 2019.

ASSIGNOR:

INTELLECTUAL VENTURES ASSETS 157 LLC

Tim Weisfield
Jim Weisfield
Authorized Person

PATENT REEL: 051632 FRAME: 0232

RECORDED: 01/27/2020