

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

LICENSE

CONVEYING PARTY DATA

Name	Execution Date
California Institute of Technology	09/17/2008

RECEIVING PARTY DATA

Name:	Intellectual Ventures Holding 59 LLC
Street Address:	502 East John Street
City:	Carson City
State/Country:	NEVADA
Postal Code:	89706

PROPERTY NUMBERS Total: 52

Property Type	Number
Patent Number:	5257389
Patent Number:	5598354
Patent Number:	5680515
Patent Number:	5952685
Patent Number:	5724269
Patent Number:	5793871
Patent Number:	5937102
Patent Number:	5964860
Patent Number:	5995556
Patent Number:	5999660
Patent Number:	6088467
Patent Number:	6212288
Patent Number:	6023521
Patent Number:	6212289
Patent Number:	6044165

PATENT

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REEL: 022117 FRAME: 0805

OP \$2080.00 5257389

Patent Number:	6072433
Patent Number:	6097456
Patent Number:	6031653
Patent Number:	6172658
Patent Number:	6173271
Patent Number:	7039930
Patent Number:	6212292
Patent Number:	6233290
Patent Number:	6509866
Patent Number:	6529614
Patent Number:	6552729
Patent Number:	6573897
Patent Number:	6603473
Patent Number:	6920415
Patent Number:	7023435
Patent Number:	6633331
Patent Number:	6633671
Patent Number:	6732336
Patent Number:	6949954
Patent Number:	6757666
Patent Number:	6771831
Patent Number:	6826752
Patent Number:	6828966
Patent Number:	6917708
Patent Number:	5986808
Patent Number:	6297907
Patent Number:	6992826
Patent Number:	7020076
Patent Number:	7030356
Patent Number:	7046851
Patent Number:	7061483
Patent Number:	7068738
Patent Number:	7076516
Patent Number:	7098916
Patent Number:	6711717

Application Number:	12152827
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Application Number:	12151152
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CORRESPONDENCE DATA

Fax Number: (509)755-7252

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (509) 755-7262

Email: Linnaea@SBMC-Law.com

Correspondent Name: Sadler, Breen, Morasch & Colby p.s.

Address Line 1: 422 W. Riverside Ave., Suite 424

Address Line 4: Spokane, WASHINGTON 99201

ATTORNEY DOCKET NUMBER:	INVH-GEN
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NAME OF SUBMITTER:	Michael K. Colby Reg. 45,816
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Total Attachments: 7

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EXHIBIT B-1

MEMORANDUM OF EXCLUSIVE LICENSE/RIGHTS

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<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
5257389 (07/515,247)	US	10/26/1993 (4/27/1990)	Image-product array processor for retrieval of stored images represented by bipolar binary (+1,-1) pixels using partial input trinary pixels represented by (+1,-1) Liu, Hua-Kuang; Awwal, Abdul A. S.; Karim, Mohammad A.
5598354 (08/357,578)	US	1/28/1997 (12/16/1994)	Motion video compression system with neural network having winner-take-all function Fang, Wai-Chi; Sheu, Bing J.
5680515 (08/534,537)	US	10/21/1997 (9/27/1995)	High precision computing with charge domain devices and a pseudo-spectral method therefor Barhen, Jacob; Toomarian, Nikzad; Fijany, Amir; Zak, Michail
5952685 (08/598,900)	US	9/14/1999 (2/9/1996)	Signal processing applications of massively parallel charge domain computing devices Fijany, Amir; Barhen, Jacob; Toomarian, Nikzad
5724269 (08/514,626)	US	3/3/1998 (8/14/1995)	Single clock cycle two-dimensional median filter Pedroni, Volnei A.; Yariv, Amnon
5793871 (08/756,993)	US	8/11/1998 (11/26/1996)	Optical encryption interface Jackson, Deborah J.
5937102 (08/729,230)	US	8/10/1999 (10/9/1996)	Image reconstruction Jin, Michael Y.
5964860 (08/831,798)	US	10/12/1999 (4/8/1997)	Sequence information signal processor Peterson, John C.; Chow, Edward T.; Waterman, Michael S.; Hunkapillar, Timothy J.
5995556 (07/533,836)	US	11/30/1999 (6/6/1990)	Front end for GPS receivers Thomas, Jr., Jess Brooks
5999660 (08/506,764)	US	12/7/1999 (7/26/1995)	Imaging system for correction of perceptual distortion in wide angle images Zorin, Denis; Barr, Alan H.
6088467 (09/113,443)	US	7/11/2000 (7/10/1998)	Pulse domain neuromorphic integrated circuit for computing motion

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Sarpeshkar, Rahul; Kramer, Jorg; Koch, Christof
6212288 (09/113,651)	US	4/3/2001 (7/10/1998)	Pulse domain neuromorphic integrated circuit for computing motion Sarpeshkar, Rahul; Kramer, Jorg; Koch, Christof
6023521 (09/113,851)	US	2/8/2000 (7/10/1998)	Pulse domain neuromorphic integrated circuit for computing motion Sarpeshkar, Rahul; Kramer, Jorg; Koch, Christof
6212289 (09/113,932)	US	4/3/2001 (7/10/1998)	Pulse domain neuromorphic integrated circuit for computing motion Sarpeshkar, Rahul; Kramer, Jorg; Koch, Christof
6044165 (08/490,678)	US	3/28/2000 (6/15/1995)	Apparatus and method for tracking handwriting from visual input Perona, Pietro; Munich, Mario; Soatto, Steffano
6072433 (08/999,828)	US	6/6/2000 (7/31/1997)	Autonomous formation flying sensor Young, Lawrence E.; Lichten, Stephen M.; Tien, Jeffrey Y.; Dunn, Charles E.; Haines, Bruce J.; Lau, Kenneth H.
6097456 (09/133,281)	US	8/1/2000 (8/12/1998)	Efficient color display using low-absorption in-pixel color filters YU WANG , LA CRESCENTA, CA (US)
6,031,653 (09/141,843)	US	2/29/2000 (8/27/1998)	LOW-COST THIN-METAL-FILM INTERFERENCE FILTERS YU WANG , LA CRESCENTA, CA (US)
JP20000551245T	JP	4/1/1999	EFFICIENT COLOR DISPLAY USING NON-ABSORBING COLOR FILTERS YU WANG , LA CRESCENTA, CA (US)
6172658 (09/437,824)	US	1/9/2001 (11/10/1999)	Bubble imaging technology Romberg, Frederick W.
6173271 (08/979,838)	US	1/9/2001 (11/26/1997)	Television advertising automated billing system Goodman, Rodney M.; Emerson, Karen; Dickson, Jeffrey
7039930 (09/528,479)	US	5/2/2006 (3/17/2000)	Television advertising automated billing system Goodman, Rodney M.; Emerson, Karen; Dickson, Jeffery
6212292 (09/111,919)	US	4/3/2001 (7/8/1998)	Creating an image of an object with an optical microscope Soares, Schubert
6233290 (08/999,849)	US	5/15/2001 (4/13/1995)	Method for noncoherent coded modulation Raphaelli, Dan
6509866 (09/759,757)	US	1/21/2003 (1/12/2001)	Fast chirp transform Prince, Thomas A.

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6529614 (09/366,932)	US	3/4/2003 (8/4/1999)	Advanced miniature processing hardware for ATR applications Chao, Tien-Hsin; Daud, Taher; Thakoor, Anikumar
6552729 (09/434,210)	US	4/22/2003 (11/4/1999)	Automatic generation of animation of synthetic characters Di Bernardo, Enrico; Goncalves, Luis F.; Perona, Pietro
6573897 (09/569,352)	US	6/3/2003 (5/11/2000)	Real-time, interactive animation of deformable two- and three-dimensional objects Desbrun, Mathieu; Schroeder, Peter; Meyer, Mark; Barr, Alan H.
6603473 (09/833,267)	US	8/5/2003 (4/11/2001)	Detail data pertaining to the shape of an object surface and related methods and systems Litke, Nathan Jacob; Levin, Adi; Schroeder, Peter
6920415 (09/833,266)	US	7/19/2005 (4/11/2001)	Method of trimming a representation of an object surface comprising a mesh of tessellated polygons and related system Litke, Nathan Jacob; Levin, Adi; Schroeder, Peter
7023435 (09/833,268)	US	4/4/2006 (4/11/2001)	Object surface representation and related methods and systems Litke, Nathan Jacob; Levin, Adi; Schroeder, Peter
6633331 (09/197,304)	US	10/14/2003 (11/20/1998)	High-speed CCD array camera with random pixel selection Potter, Steven M.; Pine, Jerome
6633671 (09/239,920)	US	10/14/2003 (1/28/1999)	Camera-based handwriting tracking Munich, Mario E.; Perona, Pietro
6732336 (10/269,255)	US	5/4/2004 (10/11/2002)	Method and apparatus for an asynchronous pulse logic circuit Nystrom, Mika; Martin, Alain J.
6711717 (10/269,386)	US	3/23/2004 (10/11/2002)	Method and system for compiling circuit designs Nystrom, Mika; Martin, Alain J.
6949954 (10/693,543)	US	9/27/2005 (10/24/2003)	Method and apparatus for an asynchronous pulse logic circuit Nystrom, Mika; Martin, Alain J.
6757666 (09/549,216)	US	6/29/2004 (4/13/2000)	Locally connected neural network with improved feature vector Thomas, Tyson
6771831 (10/298,179)	US	8/3/2004 (11/15/2002)	Data compression method and system using globally optimal scalar quantization Effros, Michelle; Muresan, Dan
6826752 (09/461,160)	US	11/30/2004 (12/14/1999)	Programming system and thread synchronization mechanisms for the development of selectively sequential and multithreaded computer programs

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Thornley, John; Chandu, K. Mani; Ishii, Hiroshi
6828966 (10/136,866)	US	12/7/2004 (4/29/2002)	Method of deriving mesh surface representation from volume representation Gavriliu, Marcel; Carranza, Joel; Breen, David E.; Barr, Alan H.
6917708 (09/765,772)	US	7/12/2005 (1/19/2001)	Handwriting recognition by word separation into silhouette bar codes and other feature extraction Goodman, Rodney M.; Woods, Donal J.; Keaton, Patricia A.; Chen, Joseph
5986808 (08/949,151)	US	11/16/1999 (10/10/1997)	Surface-plasmon-wave-coupled tunable filter YU WANG , LA CRESCENTA, CA (US)
6297907 (09/144,519)	US	10/2/2001 (8/31/1998)	Devices based on surface plasmon interference filters YU WANG , LA CRESCENTA, CA (US)
6992826 (09/965,033)	US	1/31/2006 (9/25/2001)	Devices based on an array of light-filtering channels with surface plasmon interference filters YU WANG , LA CRESCENTA, CA (US)
7020076 (09/698514)	US	3/28/2006 (10/26/2000)	Fault-tolerant communication channel structures Alkalai, Leon; Chau, Savio N.; Tai, Ann T.
7030356 (10/321300)	US	4/18/2006 (12/16/2002)	CMOS imager for pointing and tracking applications Pain, Bedabrata; Sun, Chao; Yang, Guang; Heynssens, Julie B.
7046851 (10/045,640)	US	5/16/2006 (11/8/2001)	Image and video indexing scheme for content analysis Keaton, Patricia A.; Goodman, Rodney M.
7061483 (10/071,268)	US	6/13/2006 (2/7/2002)	Methods for computing barycentric coordinates generalized to irregular n-gons and applications of the same Desbrun, Mathieu; Barr, Alan H.; Meyer, Mark
7068738 (10/051,617)	US	6/27/2006 (1/16/2002)	FQPSK-B viterbi receiver Lee, Dennis K.; Simon, Marvin K.; Yan, Tsun-Yee
7076516 (09/956,590)	US	7/11/2006 (9/18/2001)	Efficient method of identifying non-solution or non-optimal regions of the domain of a function Gavriliu, Marcel; Barr, Alan H.

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
7098916 (10/252,019)	US	8/29/2006 (9/19/2002)	Connectivity encoding and decoding of polygon meshes Khodakovsky, Andrei; Schroeder, Peter

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LICENSOR:

**CALIFORNIA INSTITUTE OF
TECHNOLOGY**

By:  FOR

Name: Fred Farina
Asst. Vice President

Title: Office of Technology Transfer
California Institute of Technology

State of California

County of Los Angeles

On September 17, 2008 before me, Penelope Wolfe Notary Public,
personally appeared Karina Edmonds, who
proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is are
subscribed to the within instrument and acknowledged to me that ~~he~~ she ~~they~~ executed the same
in ~~his~~ her ~~their~~ authorized capacity(~~ies~~), and that by ~~his~~ her ~~their~~ signature(~~s~~) on the instrument
the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Penelope Wolfe

