(12) **United States Patent**
Tasler

(10) **Patent No.:** US 9,189,437 B2
(45) **Date of Patent:** *Nov. 17, 2015

(54) **ANALOG DATA GENERATING AND PROCESSING DEVICE HAVING A MULTI-USE AUTOMATIC PROCESSOR**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 755 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **11/467,092**

(22) Filed: **Aug. 24, 2006**

(65) **Prior Publication Data**

US 2006/0288148 A1   Dec. 21, 2006

Related U.S. Application Data

(60) Continuation of application No. 11/078,778, filed on Mar. 11, 2005, now abandoned, which is a continuation of application No. 10/219,105, filed on Aug. 15, 2002, now Pat. No. 6,895,449, which is a division of application No. 09/331,002, filed on Jun. 14, 1999, now Pat. No. 6,470,399.

(30) **Foreign Application Priority Data**

Mar. 4, 1997   (DE) 197 08 755
Mar. 3, 1998   (WO) PCT/EP98/01187

(51) **Int. Cl.**
G06F 13/28   (2006.01)
G06F 13/12   (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC *G06F 13/385* (2013.01); *G06F 3/0605* (2013.01); *G06F 3/0607* (2013.01);
(Continued)

(58) **Field of Classification Search**
CPC ... G06F 3/0605; G06F 3/0613; G06F 3/0664; G06F 13/385; G06F 3/0607; G06F 13/387; G06F 3/0676; G06F 3/0661
USPC 710/1, 15, 63
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,714,635 A   1/1973   Hamilton et al.
3,805,245 A   4/1974   Brooks et al.
(Continued)

FOREIGN PATENT DOCUMENTS

CA   2013 446   10/1990
DE   3624373 A1   1/1987
(Continued)

OTHER PUBLICATIONS

"OpenHCI Specification for USB" by Compaq, Microsoft, National Semiconductor, Oct. 10, 1996, Release V1.0a, pp. 1-146.*
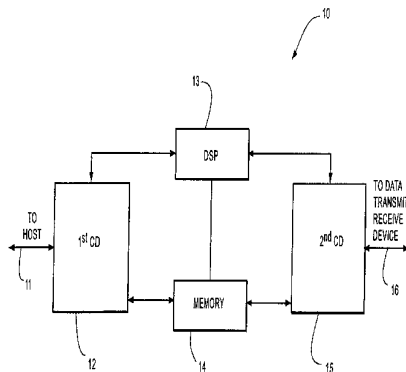(Continued)

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(57)   **ABSTRACT**

An interface device (**10**) provides fast data communication between a host device with input/output interfaces and a data transmit/receive device, wherein the interface device (**10**) comprises a processor means (**13**), a memory means (**14**), a first connecting device (**12**) for interfacing the host device with the interface device, and a second connecting device (**15**) for interfacing the interface device (**10**) with the data transmit/receive device. The interface device (**10**) is configured by the processor means (**13**) and the memory means (**14**) in such a way that, when receiving an inquiry from the host device via the first connecting device (**12**) as to the type of a device attached to the host device, regardless of the type of the data transmit/receive device, the interface device sends a signal to the host device via the first connecting device (**12**) which signals to the host device that it is communicating with an input/output device.

45 Claims, 2 Drawing Sheets

(51) **Int. Cl.**
    G06F 13/38   (2006.01)
    G06F 3/06   (2006.01)

(52) **U.S. Cl.**
    CPC *G06F 3/0613* (2013.01); *G06F 3/0661*
         (2013.01); *G06F 3/0664* (2013.01); *G06F*
         3/0676 (2013.01); *G06F 13/387* (2013.01)

(56)   **References Cited**

U.S. PATENT DOCUMENTS

3,976,979	A	8/1976	Parkinson et al.
4,041,473	A	8/1977	Bardotti et al.
4,420,773	A	12/1983	Toyoda et al.
4,466,573	A	8/1984	Camboulives et al.
4,509,113	A	4/1985	Heath
4,642,759	A	2/1987	Foster
4,652,928	A *	3/1987	Endo et al. 348/219.1
4,680,732	A	7/1987	DiCenzo
4,787,027	A	11/1988	Prugh et al.
4,888,680	A	12/1989	Sander et al.
4,896,262	A	1/1990	Wayama et al.
4,901,275	A	2/1990	Hardie et al.
4,972,470	A	11/1990	Farago
5,014,186	A	5/1991	Chisholm
5,034,598	A	7/1991	Poland
5,070,474	A	12/1991	Tuma et al.
5,088,033	A	2/1992	Binkley et al.
5,129,036	A	7/1992	Dean et al.
5,131,089	A	7/1992	Cole
5,197,128	A	3/1993	Campbell et al.
5,214,761	A	5/1993	Barrett et al.
5,214,785	A	5/1993	Fairweather
5,226,168	A	7/1993	Kobayashi et al.
5,230,065	A	7/1993	Curley et al.
5,231,501	A	7/1993	Sakai
5,275,327	A	1/1994	Watkins et al.
5,291,584	A	3/1994	Challa et al.
5,291,611	A	3/1994	Davis et al.
5,296,611	A	3/1994	Solladie et al.
5,297,124	A	3/1994	Plotkin et al.
5,303,326	A	4/1994	Dean et al.
5,369,484	A	11/1994	Haugen
5,371,885	A	12/1994	Letwin
5,379,382	A	1/1995	Work et al.
5,386,518	A	1/1995	Reagle et al.
5,402,170	A	3/1995	Parulski et al.
5,428,357	A	6/1995	Haab et al.
5,430,855	A	7/1995	Walsh et al.
5,440,699	A	8/1995	Farrand et al.
5,444,644	A	8/1995	Divjak
5,457,784	A	10/1995	Wells et al.
5,457,785	A	10/1995	Kikinis et al.
5,463,772	A	10/1995	Thompson et al.
5,465,106	A	11/1995	Keech et al.
5,473,765	A	12/1995	Gibbons et al.
5,475,441	A	12/1995	Parulski et al.
5,479,206	A	12/1995	Ueno et al.
5,487,154	A	1/1996	Gunji
5,493,335	A	2/1996	Parulski et al.
5,499,378	A	3/1996	McNeill, Jr. et al.
5,506,617	A	4/1996	Parulski et al.
5,506,692	A	4/1996	Murata
5,508,821	A	4/1996	Murata
5,510,774	A	4/1996	Phillips
5,515,474	A	5/1996	Deacon et al.
5,524,047	A	6/1996	Brown et al.
5,528,765	A	6/1996	Milligan
5,530,858	A	6/1996	Stanley et al.
5,532,825	A	7/1996	Lim et al.
5,537,597	A	7/1996	Sandage
5,539,535	A	7/1996	Aizawa et al.
5,548,782	A	8/1996	Michael et al.
5,548,783	A	8/1996	Jones et al.
5,570,146	A	10/1996	Collette

5,576,757	A *	11/1996	Roberts et al. 348/220.1
5,579,529	A	11/1996	Terrell et al.
5,581,741	A	12/1996	Clark et al.
5,596,628	A	1/1997	Klein
5,614,344	A	3/1997	Kawakami et al.
5,614,670	A	3/1997	Nazarian et al.
5,614,948	A *	3/1997	Hannah 348/255
5,619,659	A	4/1997	Kikinis et al.
5,625,800	A	4/1997	Brayton et al.
5,625,840	A	4/1997	Numata et al.
5,628,030	A	5/1997	Tuckner
5,630,164	A	5/1997	Williams et al.
5,634,075	A *	5/1997	Smith et al. 710/9
5,638,299	A	6/1997	Miller
5,639,606	A	6/1997	Willey
5,640,204	A	6/1997	Tsutsui
5,663,901	A	9/1997	Wallace et al.
5,668,976	A	9/1997	Zook
5,689,710	A	11/1997	Stanley et al.
5,692,134	A *	11/1997	Wang et al. 710/104
5,692,159	A	11/1997	Shand
5,696,970	A	12/1997	Sandage et al.
5,703,584	A	12/1997	Hill
5,712,682	A	1/1998	Hannah
5,724,155	A	3/1998	Saito
5,724,574	A	3/1998	Stratigos et al.
5,742,934	A *	4/1998	Shinohara 711/103
5,748,924	A	5/1998	Llorens et al.
5,754,227	A	5/1998	Fukuoka
5,764,546	A	6/1998	Bryant et al.
5,765,027	A	6/1998	Wang et al.
5,778,205	A	7/1998	Orimoto
5,778,384	A	7/1998	Provino et al.
5,784,581	A	7/1998	Hannah
5,790,193	A	8/1998	Ohmori
5,794,032	A	8/1998	Leyda
5,802,325	A	9/1998	Le Roux
5,802,385	A	9/1998	Densham et al.
5,806,072	A	9/1998	Kuba et al.
5,812,879	A	9/1998	Moro
5,815,201	A	9/1998	Hashimoto
5,815,205	A	9/1998	Hashimoto et al.
5,822,614	A	10/1998	Kenton et al.
5,841,471	A	11/1998	Endsley et al.
5,844,961	A	12/1998	McEvoy et al.
5,845,094	A	12/1998	Beauchamp et al.
5,848,420	A	12/1998	Xu
5,854,905	A	12/1998	Garney
5,854,949	A	12/1998	Furukawa et al.
5,871,368	A	2/1999	Erdner et al.
5,875,415	A	2/1999	Lieb et al.
5,877,975	A	3/1999	Jigour et al.
5,878,248	A	3/1999	Tehranian et al.
5,881,366	A	3/1999	Bodenmann et al.
5,884,103	A	3/1999	Terho et al.
5,892,939	A	4/1999	Call et al.
5,914,748	A *	6/1999	Parulski et al. 348/239
5,915,106	A	6/1999	Ard
5,917,545	A	6/1999	Kowno et al.
5,920,709	A	7/1999	Hartung et al.
5,923,193	A	7/1999	Bloch et al.
5,926,208	A	7/1999	Noonen et al.
5,928,347	A	7/1999	Jones et al.
5,929,903	A	7/1999	Kiesow
5,930,480	A	7/1999	Staats
5,935,224	A	8/1999	Svancarek et al.
5,937,423	A	8/1999	Robinson
5,946,386	A	8/1999	Rogers et al.
5,948,091	A *	9/1999	Kerigan et al. 710/10
5,969,750	A *	10/1999	Hsieh et al. 348/14.1
5,974,161	A	10/1999	York
5,991,530	A	11/1999	Okada et al.
5,995,080	A	11/1999	Biro et al.
6,005,613	A	12/1999	Endsley et al.
6,012,113	A	1/2000	Tuckner
6,014,430	A	1/2000	Gosney et al.
6,023,292	A	2/2000	Wakui
6,026,217	A	2/2000	Adiletta

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,067,584 A	5/2000	Hayles et al.	
6,081,856 A	6/2000	Comer	
6,086,430 A	7/2000	Amoni et al.	
6,088,532 A	7/2000	Yamamoto et al.	
6,094,219 A	7/2000	Roberts et al.	
6,098,116 A	8/2000	Nixon et al.	
6,101,276 A	8/2000	Adiletta et al.	
6,104,430 A	8/2000	Fukuoka	
6,111,604 A *	8/2000	Hashimoto et al.	348/220.1
6,119,180 A	9/2000	Terho et al.	
6,131,125 A	10/2000	Rostoker et al.	
6,147,703 A	11/2000	Miller et al.	
6,149,316 A	11/2000	Harari et al.	
6,163,344 A	12/2000	Kawamura et al.	
6,182,145 B1	1/2001	Schuman et al.	
6,188,675 B1	2/2001	Casper et al.	
6,256,319 B1	7/2001	Apgar et al.	
6,256,452 B1	7/2001	Yamamoto	
6,260,102 B1	7/2001	Robinson	
6,286,073 B1	9/2001	Vegter	
6,292,589 B1	9/2001	Chow et al.	
6,298,388 B1	10/2001	Taguchi	
6,344,875 B1	2/2002	Hashimoto et al.	
6,424,809 B1	7/2002	Yamamoto et al.	
6,441,854 B2	8/2002	Fellegara et al.	
6,470,399 B1	10/2002	Tasler	
6,654,050 B2	11/2003	Karube et al.	
6,670,985 B2	12/2003	Karube et al.	
6,895,449 B2	5/2005	Tasler	
7,046,276 B2	5/2006	Hashimoto et al.	
2001/0050711 A1	12/2001	Karube et al.	

FOREIGN PATENT DOCUMENTS

DE	88 G 3559	3/1989
DE	390 332 B	4/1990
DE	41 37 928 A1	5/1992
DE	195 28 889 A1	8/1995
DE	296 07 724 U	4/1996
DE	195 28 889 A1	2/1997
EP	0 03 044	4/1984
EP	0 229 700	7/1987
EP	0 259 786 A1	9/1987
EP	0 391 157 A2	3/1990
EP	0 685 799 A1	5/1995
EP	0685 799 A1	12/1995
EP	0 705 037 A2	3/1996
JP	53145535 A	12/1978
JP	61034652 A	2/1986
JP	61060164 A	3/1986
JP	63-133204	6/1988
JP	01303554 A	7/1989
JP	01293404 A	11/1989
JP	02-051727	2/1990
JP	02114351 A	4/1990
JP	03-246654	11/1991
JP	04-133152	5/1992
JP	04-213715	8/1992
JP	04-309156	10/1992
JP	06-052087	2/1994
JP	06-067815	3/1994
JP	06-83917	3/1994
JP	06-090423	3/1994
JP	06-301607	10/1994
JP	6-301607	10/1994
JP	07-044290	2/1995
JP	07-177406	7/1995
JP	07-202982	8/1995
JP	08-110883	4/1996
JP	8-110883	4/1996
JP	08-130702	5/1996
JP	H8-130702	5/1996
JP	08-191375	7/1996
JP	08-191412	7/1996
JP	08-223341	8/1996
JP	08-328990	12/1996
JP	09016506 A	1/1997
JP	09-091237	4/1997
JP	10-177535	6/1998
WO	WO 91/02212	2/1991
WO	WO 94/19746	9/1994
WO	WO 94/27223	11/1994
WO	WO 96/27159	9/1996

OTHER PUBLICATIONS

Robert Ristelhueber, "Plug and play is almost here. (automatic configuration of PCs and peripherals)," May 1994, Electronic Business Buyer, v20 , n5 , pp. 43-45.*

IEEE Standard for a High Performance Serial Bus, 1996. 392 pp. (IEEE Std 1394-1995).

Digidesign 882/20 I/O Audio Interface Installation Guide, 14 pp.

Information Technology—Serial Bus Protocol 2 (SBP-2), T10 Project 1155D, Revision 4, May 19, 1998, 107 pp.

An American National Standard, IEEE Standard for a Simple 32-Bit Backplane Bus: NuBus; 1998, 51 pp. (ANSI/IEEE 1196-1987).

Polaroid Digital Camera PDC-2000 User Guide for Macintosh or Windows applications (142 pp.).

apple-history.com, Macintosh Quadra 650 (with NuBus Slots), Apple Computer, Inc., (produce introduced Oct. 1993) Nov. 29, 2005, 2 pp.

Wang, James www.sims.berkeley.edu Third Party NuBus AV (Audio-Video) Cards, 1993-1996 1 pg.

Accredited Standards Committee X3, Information Technolgoy, John Lohmeyer, X3T10/96-202rl, Agenda and Results of Meeting, X3T10 SCSI Working Group Meeting, Jul. 24, 1996 (6 pp.).

Intel Corporation, Universal Host Controller Interface Design Guide (UHCI), Revision 1.1, Mar. 1996 (47 pp.).

Twain Working Group Committee, Twain Toolkit Release V1.6, Twain Specification Release, Feb. 5, 1996 (367 pp.).

Digidesign Website, www.digidesign.com, Tabular cross-reference "Pro Tools 4.0.1 NuBus Systems compatibility" as supported by Digidesign, Inc., Palo Alto, CA, 3 pp.

Twain Working Group, www.twain.org, About Twain, 4 pp.

Pournelle Alex, Jetsend Technology Allows Device connectivity with No Servers, Drivers, or Code, Computer Technology Review, Jul. 1999, vol. 19, Iss. 7, p. 22, 4 pp.

Business Editors/Technology Writers, Salutation Port-of-Entry Software Lets Application Developers Control Network Peripherals from the Windows Desktop, Business Wire, Jul. 13, 1998, p. 1 (3 pp.).

Wire Feed, HP Introduces JetSend for Pocket PC JetSend Solutions Now Compatible with Complete Range of Microsoft Windows CE- and Pocket PC-based Products, M2 Presswire, Apr. 26, 2000, p. 1 (3 pp.).

Stedman, John HP and TROY Group Extend JetSend Protocal to Simplify Printing Over Networks and the Internet; JetSend Protocal Expands Cutting-edge Capabilities to Non-HP Printers, HP Deskjet Printers, Legacy HP LaserJet Printers and Future Products, M2 Presswire, Feb. 10, 2000, p. 1 (2 pp.).

Business Editors, An Industry First,'TROY Group's NetSend Makes Up to 9 Million HP Legacy Printers Internet-Ready, Business Wire, Nov. 16, 1999, p. 1 (3 pp.).

Keele, Richard Designing Control Units that Interface Peripherals to the IBM I/O Channel, Computer Technology Review, Fall 1988; vol. 8, Iss. 13, p. 71 (1 page).

Lang, Michael Optical Server Uses Network Protocal for Plug-and Play Integration, Computer Technology Review, Dec. 1993, vol. 13, Iss. 15, p. 85 (3 pp.).

Bursky, Dave Inter-System Communication Standard to Ease Clustered System Implementation, Electronic Design, Oct. 13, 1997, vol. 45, Iss. 22, p. 32 (3 pp.).

Hadden, Thomas H., Tape Drive Without Backup Software? Wait No More, Computer Technology Review Los Angeles, Oct. 1995, vol. 15 Iss. 10, p. 34 (4 pp.).

Ferelli, Mark, 12-inch WORM becomes the key to document image processing Computer Technology Review Los Angeles, Mar. 1994,

(56) **References Cited**

OTHER PUBLICATIONS

Nelson, Andy Catching a Direct Bus. InfoWorld, Jun. 17, 1996, vol. 18, Iss. 25, p. 129 (2 pp.).

DeMonker, Judy 120 Moves Into Clustering, Storage Arenas, InfoWorld, Dec. 9, 1996, vol. 18, Iss. 50, p. 37 (2 pp.).

Krause, Reinhardt I/O Driver Spec to be Unveiled, Electronic News, Jan. 29, 1996, vol. 42, Iss. 2101, p. 1 (3 pp.).

Microsoft Windows 95 README for MS-DOS Device Drivers, Aug. 1995, p. 1 (2 pp.).

Lang, Michael Optical server uses network protocols for plug-and-play integration, Computer Technology Review: Special Fall Issue, Los Angeles, Dec. 1993, vol. 13, Iss. 15 p. 85 (6 pp.).

Printouts made in 2007 from three web pages that concern commercial information about the Nikon Coolpix 100 camera. (English).

Manual for Nikon Coolpix 100 camera that was downloaded from Nikon's web site in 2007. (English).

Photocopies of materials that came with a used Nikon Coolpix 100 camera that was purchased in 2007 in Europe. (German and English).

A printout showing the file directory structure of the files contained in a CD-ROM that came with a used Nikon Coolpix 100 camera that was purchased in Europe in 2007. (English).

A file called "COOL110S.PDF" that is stored in the CD-ROM that came with the used Nikon Coolpix camera that was purchased in Europe in 2007, the document contained in this file being entitled "Nikon Camara Digital Coolpix 100 Manual del Usuario." (Spanish).

Pictures of a used Nikon Coolpix 100 camera that was purchased in the United States in 2007, one of the pictures showing the camera in a disassembled state.

A Nikon Coolpix 100 camera manual that was purchased in 2007 in the United States. (English).

Colloquim on "PC-Based Instrumentation" Martin, Steve; Digest No. 1990/025, The Institution of Electrical Engineers, London (4 pages).

High Speed PC-based Data Acquisition Systems, Payne, Jeffrey R, Bradford A. Menz, et al.; 1995 IEEE, pp. 2140-2145.

Implementing Remote Procedure Calls, Birrell, Andrew D. and Nelson, Bruce Jay; Xerox Palo Alto Research Center, ACM Transactions on Computer Systems, vol. 2, No. 1, Feb. 1984, pp. 39-59.

QV-10 Digital Camera—News Release Nov. 14, 1994 (Feb. 1995 correction) Portable Image Information Equipment of Multimedia Age—Liquid Crystal Digital Camera of Compact Size (Jun. 7, 2007) CAP-020276 (internet web pages) 4 pages.

It's the Most Effective, Cost-Sensitive Way to Publish Your Inventions; IBM Technical Disclosure Bulletin, vol. 38, No. 5, May 1995 (4 pages) CAP-020280.

Casio's QV-10: Portable Presentations (Oct. 1995) (2 pages).

About.com: Inventors—History of the Digital Camera, Bellis, Mary, 2 pages.

Wikipedia: Digital Camera (13 pages).

A Brief Info on Kodak DCS-Series Digital Still SLR Cameras (10 pages).

A Brief Info on Kodak DCS-Series Digital Still SLR Cameras Part II—DCS-400 Series with Nikon N90(s)/F90(x) Body Chassis (10 pages).

Card Information Structure of Nikon Coolpix 100 Memory.

Manual for Sony Digital Still Camera DSC-F 1 (60 pages).

Sony PC Connecting Kit—Operating Instructions (127 pages).

Sony DSC-F1 Digital Still Camera (2 page).

Manual for Canon EOS-DCS 3C Digital Camera (314 pages).

Spec Sheet for Canon EOS-DCS 3C Digital Camera (2 pages).

Spec Sheet for Canon PS600 Digital Camera (1 page).

Information Regarding Olympus Camedia C-800L Digital Camera.

Kodak DC20 Camera Manual (37 pages).

Kodak DC 25 Camera Manual (47 pages).

Kodak Picture Easy Software (1 page).

Kodak Picture Works Software (2 pages).

Universal Serial Bus Specification, 1.0 Final Draft Revision, Nov. 13,

Universal Serial Bus Specification, Revision 1.0, Jan. 15, 1996.

Brochure for Nikon Coolpix 100 camera (English translation provided) (8 pages).

Nikon COOLPIX 100 Specification (4 pages).

Technical Specs—QV-10A—QV Series—Cameras—Products—CASIO (1 page).

QV-LINK Version 2.0 for Window (QVLINK-README.TXT) (5 pages).

Qv-10B Owner's Manuel (Casio) (23 pages).

Information Technology—Serial Bus Protocol 2 (SBP -2), T10 Project 1155D, Revision 4, May 19, 1998, 107 pp.

Accredited Standards Committee X3, Information Technology, John Lohmeyer, X3T10/96-202r1, Agenda and Results of Meeting, X3T10 SCSI Working Group Meeting, Jul. 24, 1996 (6 pp.).

Business Editors, An Industry First, TROY Group's NetSend Makes Up to 9 Million HP Legacy Printers Internet-Ready, Business Wire, Nov. 16, 1999, p. 1 (3 pp.).

Bursky, Dave Inter-System Communication Standard to Ease Clustered System Implementation, Electronic Design, Oct. 13, 1997, vol. 45, Iss. 22, p. 32(3 pp.).

Hadden, Thomas H., Tape Drive Without Backup Software? Wait No More, Computer Technology Review Los Angeles, Oct. 1995, vol. 15, Iss. 10, p. 34 (4 pp.).

USB: A Neat Package With A Fee Loose Ends; Author: Richard A. Quinnell; pp. 38-52; EDN Date: Oct. 24, 1996.

The SCSI Bus and IDE Interface Book; Author: Friedhelm Schmidt; Publication Date: Jun. 17, 1995 (German version published in 1993).

"Device Class Definition for Human Interface Devices (HID)" version 1.0—Final; Publication Date: Jun. 21, 1997.

"Derived Virtual Devices: A Secure Distributed File System Mechanism"; Publication Date: Sep. 17, 1996.

Camera Manufacturers Invalidit Contentions; Jun. 18, 2008.

Exhibit A to Reference No. 22.

Case 1:07-mc-00493-RMC; Document 160; Filed Jun. 30, 2008.

Case 1:07-mc-00493-RMC; Document 160-2; Filed Jun. 30, 2008.

Case 1:07-mc-00493-RMC; Document 160-3; Filed Jun. 30, 2008.

Data Disasters: What Not To Do; Author; Michael Lang; Date: Dec. 1993.

PC-based Data Acquisition in an Industrial Environment; Author: Steve Martin; Date: 1990.

Jul. 1996 Apple article on SCSI drivers; Date: Jul. 3, 1996.

Designing Control Units; Author: Richard Keele; Date: Jan. 31, 1989.

Exhibit A40—Case 1:07-mc-00493-RCM; Document 139-42; Filed Jun. 18, 2008; p. 1 of 16.

Exhibit A41—Case 1:07-mc-00493-RCM; Document 139-43; Filed Jun. 18, 2008; p. 1 of 16.

Exhibit A42—Case 1:07-mc-00493-RCM; Document 139-44; Filed Jun. 18, 2008; p. 1 of 16.

Exhibit A43—Case 1:07 mc-00493-RCM; Document 139-45; Filed Jun. 18, 2008; p. 1 of 16.

Exhibit A44—Case 1:07-mc-00493-RCM; Document 139-46; Filed Jun. 18, 2008; p. 1 of 16.

Exhibit A45—Case 1:07-mc-00493-RCM; Document 139-47; Filed Jun. 18, 2008; p. 1 of 16.

Exhibit A46—Case 1:07-mc-00493-RCM; Document 139-48; Filed Jun. 18, 2008; p. 1 of 16.

Exhibit A47—Case 1:07-mc-00493-RCM; Document 139-49; Filed Jun. 18, 2008; p. 1 of 6.

Article: Search The European Classification; Physics: Computing; Calculating and Counting.

"About the SCSI Manager," Developer Connection—Inside Macintosh: Devices / Chapter 3-SCSI Manager (6 pgs), © Apple Computer, Inc., Jul. 3, 1996.

Clarifications to Plug and Play ISA Specification, Version 1.0a.

"Digital Video Camera Recorder—Digital Handycam DCR-VX1000," © 1995 by Sony Corporation.

"LK-12S for Windows 95—Connection Kit for the Casio LCD Digital Camera," QV-Link, Version 2.6 Owner's Manual.

"Plug and Play ISA Specification," Version 1.0a, © 1993,1994 by Intel Corporation and Microsoft Corporation.

"Plug and Play SCSI Specification," Version 1.0, © 1994 by Adaptec, AT&T Global Information Solutions, Digital Equip. Corp., Future

(56) **References Cited**

OTHER PUBLICATIONS

"Salutation Port-of-Entry Software Lets Application Developers Control Network Peripherals from the Windows Desktop," Desktop Business Wire, Inc., San Jose, CA, Jul. 13, 1998.

"The SCSI Bus and IDE Interface," Addison-Wesley, Sect. 14.2-25.2, pp. 183-301.

"Universal Serial Bus," http://www._homestayfinder.com/Dictionary._aspx?q=Universal_Serial_Bus.

"Universal Serial Bus," Wikipedia, http://www.en.wikipedia.org/wiki/USB.

Agrawal, Prathima, et al., "A Testbed for Mobile Networked Computing," AT&T Bell Laboratories, Murray Hill, NJ.

Annamalai et al., "Emerging High-Speed Local-Area Networks and Wide-Area Networks," Proceedings, SPIE (International Society for Optical Engineering), vol. 2608, Oct. 24-26, 1995 (Philadelphia, PA).

Apple Computer, Inc, Macintosh Quadra 700, Developer Technical Publications (1991).

Apple Computer, Inc., Chapter 1, "Hardware," Macintosh PowerBook 160 and Macintosh PowerBook 180 (2000).

Apple Computer, Inc., excerpt, "Devices," *Inside Macintosh* (1994).

Apple Technical Library, Chapters 1 and 2, "Introduction to File Management" and "File Manager," *Inside Macintosh* (1992).

Bowen, Jonathan, "A User-Friendly Interface Adapter" Computing Laboratory, Oxford University (Oxford, UK).

Business Wire, "HP Receives Industry's First Windows 95 Flatbed-Scanner Certification; HP ScanJet 4c and 4p Scanners Now Provide Easy Installation," Published Nov. 11, 1996.

Casio, Owner's Manual for QV-10 B liquid crystal digital camera.

Chan et al. "A Mega-Pixel Resolution PC Digital Still Camera," *SPIE*, 2654:164-172 (1996).

Chapter 6, "Power Manager Reference".

Clarke, P., "Two European Vendors Roll Peripheral ICs," *Electronic Engineering Times*, No. 928 (Nov. 18, 1996).

Compaq, Intel, Microsoft, and NEC, "Universal Serial Bus Specification," Revision 1.1 (Sep. 23, 1998).

Correll, K., and Ulichney, R., "The J300 Family of Video anad Audio Adapters: Architecture and Hardware Design," *Digital Technical Journal*, vol. 7, No. 4 (1995).

Davis, T., "The Path to a Custom Lab is Through a PC and an External Interface," *Research & Development* (Apr. 1985).

DiNucci, Darcy, et al., excerpt, "SCSI ID," *Macintosh Bible* (5th Edition) translated to Japanese (1995).

Eastman Kodak User's Manual for "Kodak Professional DCS 200 Digital Camera" (1993).

Eastman Kodak User's Manual for EOS DCS 1, EOS DCS 3 and EOS DCS 5 digital cameras (1997).

Excerpt of chapter 6, Macintosh "SCSI ID" (1994).

Gadre, D., "Using the Parallel Adapter as a Host Interface Port: New Uses for Old Tools," *Dr. Dobb's Journal* (Apr. 1996).

Gallagher, Paul, "A MegaPixel Camera With SCSI Interface" (International Robots and Vision Automation Conference, May 9-11, 1995, Detroit, MI).

Gallant, John, "Advancing the Art of Industrial Video Imaging: CCD Cameras and Frame Grabbers," EDN Access, http://www.edn.com/archives/ 1996 /011896/<http://www.edn.com/archives/ %201996%20 011896/>02df2.htm.

Heiman, E., "Maximize Computer Storage with an IPI Controller: Integrate a High Data-Transfer Rate Disk Controller Into Your Computer System" (Apr. 13, 1989).

HighBeam Research, "1997 Technology Forecast," Published in Business New on Jan. 6, 1997.

Himowitz, M. J., "Digital Watching/Infotech/Technology Monitor," *Time, Inc*. (Feb. 17, 1997).

Hitoshi et al., "High Definition Image Capturing Camera HC-1000," vol. 17, No. 16 (Mar. 4, 1993).

Hoffman, Gary, "A/V Digital Interface of Choice," IEEE 1394 (Jan. 1996).

HP Photosmart Digital Camera—How the HP PhotoSmart Digital Camera Works.

HP PhotoSmart Digital Camera—Product Specifications (Model No. C5340A).

HP PhotoSmart Digital Camera C20/C30/C200 Series—TWAIN Technology Overview.

HP website, HP Photosmart digital camera—Accessories, Parts, Supplies, and Manuals.

HP website, HP Photosmart Digital Camera—What Ships in the Box.

HpNOW, "PhotoSmart System" (Mar. 18, 1997).

lsoyama et al., "ISDN Basic Interface for Sumistation," Sumitomo Electric Technical Review, No. 31 (Jan. 1991).

Jones, Douglas W., "Disk Interfaces," University of Iowa, Department of Computer Science (Fall 1996).

Kleiman, S., Vnodes: An Architecture for Multiple file System Types in Sun UNIX (Sun Microsystems).

Kodak DCS-Digital Still SLR camera, "A brief info on Kodak DCS-Series Digital Still SLR cameras" (Oct. 30, 2006).

Kodak Professional DCS 200 Digital Camera (in Japanese language).

Kodak TIB4234, DCS 200 AC Power Adapter, Kodak Technical Information Bulletin (Jun. 2000).

Kodak User's Guide for DC25 Digital Camera.

Lang, Michael, "Optical Server Uses Network Protocols for Plug-and-Play Integration," *Computer Technology Review* (Special Fall Issue, Dec. 1993).

Moore, D.J., "Multimedia Presentation Development Using the Audio Visual Connection," *IBM Systems Journal*, vol. 29, No. 4 (1990).

Müller, H., et al., "The CHI, a New Fastbust Interface and Processor," *IEE Transaction on Nuclear Science*, vol. 37, No. 2.

Nikon F-801s—N8008s Repair Manual, Nikon Corporation.

Nikon N8008s AF Instruction Manual.

Note, S., et al. "Rapid prototyping of DSP systems : requirements and solutions," pp. 88-96, 1074-6005/95 © 1995 IEEE.

Oda, K., et al., "The Development of Digital Still Camera Using 1.3M-Pixel VT-CCD Image Sensor," ITE Technical Report, vol. 19, No. 60 (Nov. 15, 1995).

Okuda, K., chapter from book, "MacRecorder," translated to Japanese (Jul. 20, 1992).

Pournelle, A., "JetSend Technology Allows Device Connectivity With No Servers, Drivers, or Code—Company Business and Marketing," Computer Technology Review (Jul. 1999).

Quinnell, R., "The Mighty Morphin' PCI Bus," *EDN* (Apr. 25, 1996).

Rieg, E., "Improved design avoids bottlenecks," Elektronik, Sep. 29, 1989; 38(20): pp. 52-56, (German) English translation.

Sawert, B., "The Advanced SCSI Programming Interface," *Dr. Dobbs Journal* (Mar. 1994).

Schmidt, F., "SCSI-Bus und IDE-Schnittstelle," Sect. 3.5-3.17.3, pp. 174-316.

Schmidt, F., "The SCSI Bus and IDE Interface—Protocols, Applications and Programming," translated (English) from the German edition SCSI-Bus unds IDE-Schnittstelle, Addison-Wesley (Deutschland) GmbH.

Section 5, "Using the DCS 200 Camera with a PC," of Kodak User's Manual.

Section 8, "Reference-Kodak Driver for Aldus PhotoStyler Software," of Kodak User's Manual.

Sheppard et al., "Engineering Advances: New Opportunities for Biomedical Engineers," Proceedings of the 16th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, vol. 16 (11/3-6/94).

Simpson, R. W., "High Performance, Dual Speed CCD Camera System for Scientific Imaging," SPIE, vol. 2654 (Jan. 31, 1996).

Slater, M., "Universal Serial Bus to Simplify PC/IO: New Interface to Service Keyboards, Mice, Telecom, and More," *Microprocessor Report*, vol. 9, No. 5 (Apr. 17, 1995).

Sony Semiconductor, "New Interface of Digital Network Age," IEEE 1394.

Spragens, J., "Kodak DCS 420 Takes Photographers Out of the Darkroom and Onto Disk," *InfoWorld* (Feb. 13, 1995).

SystemSoft® Corporation and Intel Corporation®, "Universal Serial Bus Common Class Specification"(Dec. 16, 1997).

Tatkow, M., et al. "New techniques for high-speed data acquisition,"

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