

31. (Previously Presented) The computing module as recited in claim 27, wherein the computing module is separated from the one or more modules of the computer system by a distance of at least a meter.

32. (Previously Presented) The computing module as recited in claim 27, wherein each of the one or more modules of the computer system comprises one of: a disk drive, a keyboard, a mouse, a monitor, a printer, an Internet connection, a wireless accessory, or a storage module.

33. (Previously Presented) The apparatus as recited in claim 1, further comprising:

a device configured to generate a clock signal, for use by the apparatus, from serial data asynchronously, serially received from the one or more modules.

34. (Previously Presented) The method as recited in claim 6, further comprising: generating a clock signal, for use by the first module, using the second serial data.

35. (Previously Presented) The method as recited in claim 13, further comprising:

generating a second clock signal, for use by the second module, using the first serial data.

REMARKS

Reconsideration of this Application is respectfully requested in view of the arguments presented below. Claims 1-2, and 4-6, and 8-35 remain pending in the present Application.

Informal Communications with Examiner

Applicant wishes to thank the Examiner for clarifying the rejections of 6, 8-26, 34, and 35. Specifically, Applicant understands that Claims 6, 8-26, 34, and 35 were rejected solely under a nonstatutory double patenting rejection, and that no Section 102 or 103 rejections were brought against those claims.

Double Patenting

Claims 1-35 stand rejected on the ground of nonstatutory double patenting over Claims 1-38 of parent application 11/300,131. Applicant notes the nonstatutory double patenting rejection, and will submit a terminal disclaimer to overcome the nonstatutory double patenting rejection if the nonstatutory double patenting rejection remains when the claims of the present application are allowed.

Allowable Claims

In the present Office Action, no §102 or §103 rejections of Claims 6, 8-26, 34, and 35 were made. Further, Applicant has addressed a nonstatutory double patenting rejection of those claims with a timely filed terminal disclaimer. (See above). As such, Claims 6, 8-26, 34, and 35 are in a position for allowance, and Applicant requests immediate allowance of Claims 6, 8-26, 34, and 35, subject to a timely filed terminal disclaimer.

35 U.S.C. §102 Rejections

Claims 1-5 are rejected under 35 U.S.C. §102(e) as being anticipated by Abramson (U.S. Patent No. 5,991,304). Applicant points out that the rejection fails to establish a prima facie case of anticipation since Abramson fails to teach each and every element of the claims.

Independent Claim 1 recites:

1. An apparatus comprising:
a processor;
a parallel bus; and
an interface configured to receive parallel data from the parallel bus and configured to asynchronously, serially exchange serial data, corresponding to the parallel data, with one or more modules without requiring handshaking. (Emphasis Added)

Independent Claim 1 discloses an apparatus that is configured to asynchronously, serially exchange serial data, corresponding to the parallel data, with one or more modules without requiring handshaking. (Emphasis Added). Applicant points out that this feature is not shown by Abramson. Specifically, the present Office Action on page 5 wrongly asserts that Abramson in col. 3, lines 35-45 teaches the "1394 high performance serial bus is transferring data using packet transaction which doesn't need any external signal from the 1394 serial bus which implies without handshaking." Col. 3, lines 35-45 is provided below, for convenience:

Second, the south bridge **140** bridges transactions from the PCI bus **130** and a serial bus **160**. In the preferred embodiment, the serial bus is a 1394 serial bus in accordance with "IEEE 1394-1995 High Performance Serial Bus", published in 1995, although any other serial bus architecture may be used. The south bridge **140** is coupled to a 1394 physical interface **155**. The physical interface **155** is coupled to a plurality of nodes **160₁-160_P** (where "P" is a positive whole number). It is to be appreciated by one skilled in the

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Applicant respectfully asserts that Abramson does not teach that the 1394 serial bus transfers data using packet transaction and/or without any external signal from the serial bus and/or without handshaking. Applicant requests guidance as to where in the above paragraph or elsewhere in the Abramson reference does it imply that no handshaking occurs when using the 1394 serial bus when using packet transaction, or requests the assertion of an official fact. Absent such further guidance, Applicant asserts that Abramson does not anticipate independent Claim 1.

Further, Applicant understands the 1394 protocol to define a serial data transfer protocol in which handshaking occurs during asynchronous data transfer. The 1394 protocol includes a link layer that provides a data packet delivery service, in which the process of delivering a packet is called a "subaction." In an asynchronous subaction for packet delivery, the 1394 protocol includes the transfer of data and transaction layer information to an address, in which an acknowledgment is returned in a handshaking operation. (See Section 3.6 of the 1394-1995 IEEE Standard for a High Performance Serial Bus). As shown in FIG. 3.8 of the published standard, an acknowledge "ack" packet is delivered by the receiving or destination node in response to receipt of the data. As such, in asynchronous delivery of packets in the 1394 protocol, as relied upon by the Abramson reference, handshaking does occur, which is in direct contrast to the claimed embodiments of the present invention.



Figure 3.8—Example asynchronous subactions

As Abramson does not disclose asynchronously, serially exchanging serial data without requiring handshaking, Abramson does not anticipate independent Claim 1, and

its dependent claims are allowable at least due to their dependency upon the allowable base claim.

35 U.S.C. §103 Rejections

Claims 27-33 are rejected under 35 U.S.C. §103(a) as being anticipated by Abramson in view of Liang et al. (U.S. Patent No. 5,758,073). Applicant points out that the rejection fails to establish a prima facie case of obviousness since the combined references fail to teach each and every element of the claims.

Independent Claim 27 recites:

27. A computing module comprising:
a processor;
a parallel bus;
an interface configured to asynchronously, serially exchange serial data corresponding to parallel bus data with one or more modules of a computer system that includes the computing module; and
a device configured to generate a clock signal from the serial data.
(Emphasis Added)

Independent Claim 27 recites the feature where a clock signal is generated from the serial data. Applicant points out that this feature is not shown by the Liang et al. reference, which instead teaches a "system clock unit to generate a reference clocking signal" for driving the synchronous transfer of serial digital data. That is, the Liang et al. reference teaches a clock signal used to drive serial data, but does not teach a clock signal generated from the serial data, as recited in independent Claim 1. This defect is not cured by the addition of Abramson.

Accordingly, Applicant asserts that the present invention as recited in independent Claim 27 is not rendered obvious by the Abramson and Liang et al. references, taken alone or in combination, within the meaning of 35 U.S.C. §103(a).

With respect to the dependent claims, Applicant points out that the dependent claims are allowable at least due to their dependency upon the allowable base claim.

CONCLUSION

The Examiner is urged to contact Applicant's undersigned representative if the Examiner believes such action would expedite resolution of the present Application. Please charge any additional fees or apply any additional credits to our USPTO deposit account number: 50-4160.

Respectfully submitted,
MURABITO, HAO & BARNES LLP

Dated: March 21, 2011

/Lin C. Hsu/
Lin C. Hsu
Registration No. 46,315

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12644511
	Filing Date		2009-12-22
	First Named Inventor	Frank W. Ahern	
	Art Unit	2111	
	Examiner Name	HUYNH, KIM T	
	Attorney Docket Number	MOBI-0004P1C2C	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12644511
	Filing Date		2009-12-22
	First Named Inventor	Frank W. Ahern	
	Art Unit	2111	
	Examiner Name	HUYNH, KIM T	
	Attorney Docket Number	MOBI-0004P1C2C	

	1	"IEEE Standard for a High Performance Serial Bus;" 392 pages; The Institute of Electrical And Electronics Engineers, Inc., 1996.	☐
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EXAMINER SIGNATURE

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12644511
Filing Date	2009-12-22
First Named Inventor	Frank W. Ahern
Art Unit	2111
Examiner Name	HUYNH, KIM T
Attorney Docket Number	MOBI-0004P1C2C

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Lin C. Hsu/	Date (YYYY-MM-DD)	2011-03-21
Name/Print	Lin C. Hsu	Registration Number	46315

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	12644511			
Filing Date:	22-Dec-2009			
Title of Invention:	Computing Module with Serial Data Connectivity			
First Named Inventor/Applicant Name:	Frank W. Ahern			
Filer:	Lin C. Hsu/Tatiana Carvalho			
Attorney Docket Number:	TALS0090			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt

EFS ID:	9705699
Application Number:	12644511
International Application Number:	
Confirmation Number:	6489
Title of Invention:	Computing Module with Serial Data Connectivity
First Named Inventor/Applicant Name:	Frank W. Ahern
Customer Number:	75671
Filer:	Lin C. Hsu/Tatiana Carvalho
Filer Authorized By:	Lin C. Hsu
Attorney Docket Number:	TALS0090
Receipt Date:	21-MAR-2011
Filing Date:	22-DEC-2009
Time Stamp:	20:59:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Electronic Funds Transfer
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	7333
Deposit Account	
Authorized User	

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1		MOBI-0004P1C2C_AMDTafterFinal_03-21-2011.pdf	94486 a54fbfbf1b8e8fd7f004d4cf64d840402c96a2dd	yes	12
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment After Final		1	1	
	Claims		2	7	
	Applicant Arguments/Remarks Made in an Amendment		8	12	
Warnings:					
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2	Information Disclosure Statement (IDS) Filed (SB/08)	MOBI-0004P1C2C_IDS_03-21-2011.pdf	611907 9ef64bb15bebed89117a922692796994416ee967	no	4
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New International Application Filed with the USPTO as a Receiving Office

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/644,511		Filing Date 12/22/2009		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)			SMALL ENTITY ☐ OR		OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*	X \$	=		X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	03/21/2011	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 33	Minus	** 20	= 13	X \$	=	OR	X \$52=	676
	Independent (37 CFR 1.16(h))	* 5	Minus	***3	= 2	X \$	=	OR	X \$220=	440
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE	OR	TOTAL ADD'L FEE	1116	
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$	=	OR	X \$	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$	=	OR	X \$	=
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE	OR	TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/EMORY LANE/

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Application Number	12/644,511														
Filing Date	December 22, 2009														
First Named Inventor	Ahern, Frank														
Art Unit	2111														
Examiner Name	Huynh, Kim														
Sheet	1	of	1	Attorney Docket No: TALS0090											

US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document	T ²

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		"Examination Report", EP Application 01930580.4, (09/08/10), 5 pages	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)
 * EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

Electronic Patent Application Fee Transmittal

Application Number:	12644511			
Filing Date:	22-Dec-2009			
Title of Invention:	Computing Module with Serial Data Connectivity			
First Named Inventor/Applicant Name:	Frank W. Ahern			
Filer:	William Breen/Kenneth Linder			
Attorney Docket Number:	TALS0090			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt

EFS ID:	8944768
Application Number:	12644511
International Application Number:	
Confirmation Number:	6489
Title of Invention:	Computing Module with Serial Data Connectivity
First Named Inventor/Applicant Name:	Frank W. Ahern
Customer Number:	75671
Filer:	William Breen/Kenneth Linder
Filer Authorized By:	William Breen
Attorney Docket Number:	TALS0090
Receipt Date:	01-DEC-2010
Filing Date:	22-DEC-2009
Time Stamp:	15:41:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	2329
Deposit Account	504143
Authorized User	SADLER,LANCE R.

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		TALS0090IDS.pdf	156090	yes	3
			034185126052688d42e8b877414e7ab8780eb67		

Multipart Description/PDF files in .zip description

	Document Description	Start	End
	Transmittal Letter	1	2
	Information Disclosure Statement (IDS) Filed (SB/08)	3	3

Warnings:

Information:

2	Foreign Reference	19305804ExaminationReport090810.pdf	242441	no	5
			c52b934b71a3b87411a23cef783f6375d98ba0f9		

Warnings:

Information:

3	Fee Worksheet (PTO-875)	fee-info.pdf	30194	no	2
			523cd9cc1e80b0615b41380ae98c81cbf8bb1892		

Warnings:

Information:

Total Files Size (in bytes):			428725
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Frank W. Ahern et al.	Examiner:	Kim T Huynh
Serial No.:	12/644,511	Group Art Unit:	2111
Filed:	December 22, 2009	Docket:	TALS0090
Title:	A Computing Module with Serial Data Connectivity		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the referenced materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 50-4143.

Pursuant to 37 C.F.R. §1.97(d)(1) and 37 C.F.R. §1.97(e)(1), Applicants state that each item of information contained in the Supplemental Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Supplemental Information Disclosure Statement.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No :12/644,511

Filing Date: December 22, 2009

Title: A Computing Module with Serial Data Connectivity

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requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,

Frank W. Ahern et al.

By their Representatives,

Date December 1, 2010

By /Allan T. Sponseller, Reg. #38,318/
Allan T. Sponseller
Reg. No. 38,318



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/644,511	12/22/2009	Frank W. Ahern	TALS0090	6489
75671	7590	11/19/2010		
Sadler, Breen, Morasch & Colby, ps 601 W. Main Ave. Suite 1300 Spokane, WA 99201			EXAMINER HUYNH, KIM T	
			ART UNIT 2111	PAPER NUMBER
			NOTIFICATION DATE 11/19/2010	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptocorrespondence@sbsmc-law.com

Office Action Summary	Application No. 12/644,511	Applicant(s) AHERN ET AL.	
	Examiner KIM T. HUYNH	Art Unit 2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 October 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 December 2009 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) ☐ Notice of Informal Patent Application |
| 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>10/21/2010</u> . | 6) ☐ Other: _____ |

DETAILED ACTION

Double Patenting

1. Claims 1-35 of this application conflict with claims 1-38 of Application No. 11/300,131. 37 CFR 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application. Applicant is required to either cancel the conflicting claims from all but one application or maintain a clear line of demarcation between the applications. See MPEP § 822.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-35 are rejected on the ground of nonstatutory double patenting over claims 1-38 of parent application 11/300,131. Claim 1 of the instant application is

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unpatentable under the judicially created doctrine of “obviousness-type” double patenting with respect to claim 1 of parent application 11/300,131.

Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 1 of the instant application is anticipated by parent claim 1 in that claim 1 of the patent contains all the limitations of claim 1 of the instant application. Claim 1 of the instant application therefore is not patently distinct from the earlier patent claim and as such is unpatentable for obvious-type double patenting. See *In re Goodman*(CA FC) 29 USPQ2d 2010(12/3/1993)

Claim 1 of the Parent (11/300131)_as shown in the table below contains every element of claim 1 of the instant application and as such anticipates claim 1 of the Instant Application.

And The limitations of the remaining claims 2-35 are found, with minor variations, in the recitation of parent claims 2-38.

<u>Parent (11/300,131)</u>	<u>Instant Application(12/644511)</u>
A spatially separated computer system, comprising:	An apparatus comprising:
a first connectivity station having a first interface adapted to asynchronously, serially exchange parallel bus data	An interface configured to receive parallel data from the parallel bus and configured to asynchronously , serially

there across;	exchange serial data , corresponding to the parallel data with one or more modules without requiring handshaking.
A computing module disposed in the first connectivity station and including a processing unit adapted to create the parallel bus data on a system bus coupled to the first interface;	A processor;
A first module remotely positioned relative to the first connectivity station and having an interface coupled to the first connectivity station first interface via a serial communications link, wherein the first module is adapted to cooperate with the processing unit; and	
Wherein the first module and the first connectivity station asynchronously, serially transfer the parallel bus data there between via the serial communications link and collectively	

operate as a single computer.	
-------------------------------	--

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by
Abramson (US Patent 5,991,304)

As per 1, Abramson discloses a computing module comprising:

a processor; (fig.1, 105)

a parallel system bus; and (fig.1, 130)

an interface (fig.1, south bridge) configured to receive parallel data from the parallel bus and configured to asynchronously, serially exchange serial data, corresponding to the parallel system bus data with one or more other modules without requiring handshaking. (col.3, lines 35-45, 1394 high performance serial bus is transferring data using packet transaction which doesn't need any external signal from 1394 serial bus which implies without handshaking)

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As per claim 2 , Abramson discloses wherein the interface comprises a bridge.
(fig.2, 210)

As per claim 3, Abramson discloses wherein the interface is further configured to asynchronously, serially exchange the parallel system bus data without requiring handshaking. (col.3, lines 1-65)

As per claim 4, Abramson discloses wherein the computing module is separated from each of the one or more other modules of the computer system by a distance of at least a meter. (col.2, lines 53-65)

As per claim 5, Abramson discloses wherein each of the one or more other modules comprises a module selected from a group including: a disk drive, a keyboard, a mouse, a monitor, a printer, an Internet connection, a wireless accessory, and a storage module. (col.3, lines 25-37)

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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6. Claims 27-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abramson (US Patent 5,991,304) in view of Liang et al. (US Patent 5,758,073)

As per claims 27, Abramson discloses a computing module comprising:

a processor; (fig.1, 105)

a parallel system bus; and (fig.1, 130)

an interface (fig.1, south bridge) to asynchronously, serially exchange serial data, corresponding to the parallel system bus data with one or more other modules of a computer system that includes the computing module; and

Abramson discloses all the limitations as the above but does not explicitly disclose a device configured to generate a clock signal from the serial data.

However, Liang discloses this. (col.2, lines 34-67 & see abstract, i.e., a serial clock generate a serial clock reference signal)

It would have been obvious to one having ordinary skills in the art at the time the invention was made to incorporate Liang's teaching into Abramson's system so as to be compatible with latest advancements in the computer system.

As per claim 28, Abramson discloses wherein the serial data corresponds to the parallel bus data received at the interface from the parallel bus. (col.3, lines 25-67)

As per claim 29, Abramson discloses wherein the interface includes a configuration to serially exchange the serial data without requiring handshaking.

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(col.3, lines 35-45, 1394 high performance serial bus is transferring data using packet transaction which doesn't need any external signal from 1394 serial bus which implies without handshaking)

As per claim 30, Abramson discloses wherein the interface comprises a bridge.
(fig.2, 210)

As per claim 31, Abramson discloses wherein the computing module is separated from each of the one or more other modules of the computer system by a distance of at least a meter. (col.2, lines 53-65)

As per claim 32. Abramson discloses wherein each of the one or more other modules comprises a module selected from a group including: a disk drive, a keyboard, a mouse, a monitor, a printer, an Internet connection, a wireless accessory, and a storage module. (col.3, lines 25-37)

As per claim 33, Abramson discloses the apparatus further comprising:
a device configured to generate a clock signal, for use by the apparatus,
from serial data asynchronously, serially received from the one or more modules.
(see abstract , col.2, lines 34-67)

Response to Amendment

7. Applicant's amendment filed on 10/21/2010 have been fully considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (571)272-3635 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 9:00AM- 6:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached at (571)272-3632 or via e-mail addressed to [mark.rinehart@uspto.gov].

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The fax phone numbers for the organization where this application or proceeding is assigned are (571)273-8300 for regular communications and After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. T. H./

Examiner, Art Unit 2111

/Paul R. Myers/

Primary Examiner, Art Unit 2111

Notice of References Cited	Application/Control No. 12/644,511		Applicant(s)/Patent Under Reexamination AHERN ET AL.	
	Examiner KIM T. HUYNH		Art Unit 2111	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,758,073	05-1998	Liang et al.	709/230
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	21203889	@ad< "20010928"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/08 16:26
S2	0	last-first\$.in.	US-PGPUB; USPAT	OR	ON	2003/09/29 12:04
S3	2	ep-804933-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/02 11:17
S4	15898	"710"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/31 12:37
S5	0	(asynchronyz\$3 with bus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 10:51
S6	11646	(asynchron\$6 with bus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 10:51
S7	99	asynchron\$6 with "parallel bus"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 10:51
S8	99	asynchron\$6 with "parallel bus"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 13:00
S9	35	@ad< "20000419" and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 13:00

S10	68	(("5701483") or ("5579489") or ("6446192") or ("5781747") or ("5764924") or ("4882702") or ("5191657") or ("6044215") or ("4941845") or ("4969830") or ("5187645") or ("5373149") or ("5477415") or ("5724529") or ("5432916") or ("5191653") or ("5579491") or ("5632020") or ("5634080") or ("5941965") or ("6578101") or ("7269680") or ("7356643") or ("6715022") or ("6594719") or ("5991304") or ("6950440") or ("6201829") or ("4591660") or ("6473810") or ("6445711") or ("6581125") or ("6778543") or ("6728822")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/06/15 13:15
S11	53	(("6141744") or ("6788101") or ("6058144") or ("5452180") or ("6070214") or ("6418504") or ("20020078289") or ("5475818") or ("5335326") or ("5586265") or ("5561806") or ("5457785") or ("5819053") or ("5003105") or ("5671421") or ("5313589") or ("4901308") or ("6401157") or ("5357621") or ("5430635") or ("5913037") or ("6167120") or ("6366951") or ("5548730") or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/06/15 13:18

		("5524252") or ("5301349")).PN.				
S12	60	((("5774681") or ("5799207") or ("5483020") or ("5809262") or ("5522050") or ("5793995") or ("5748921") or ("4112369") or ("200424809") or ("20040088452") or ("6671737") or ("5736968") or ("6493745") or ("20030120849") or ("20040054757") or ("20050036509") or ("20050129385") or ("20050174488") or ("3800097") or ("4413319") or ("4504927") or ("0487029") or ("4954949") or ("4959833") or ("4961140") or ("5006981") or ("5038320") or ("5111423")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/06/15 13:20
S13	52	((("5237690") or ("5274711") or ("5325491") or ("5335329") or ("5430847") or ("5446869") or ("5495569") or ("5497498") or ("5507002") or ("5517623") or ("5530895") or ("5540597") or ("5542055") or ("5555510") or ("5572525") or ("5572688") or ("5590377") or ("5611053") or ("5655142") or ("5694556") or ("5696949") or ("20060075166") or ("7047326") or ("20010037423") or ("5377184") or ("5440698")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/06/15 13:22

S14	54	(("5469545") or ("5802055") or ("5832279") or ("5835741") or ("5854908") or ("5905870") or ("5911055") or ("6026075") or ("6031821") or ("6035333") or ("6084856") or ("6098103") or ("6115356") or ("6157967") or ("6167029") or ("6170022") or ("6222825") or ("6247091") or ("6263397") or ("6295281") or ("6333929") or ("6385671") or ("6421352") or ("6425033") or ("6456590") or ("6457081") or ("20020135536")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/06/15 13:25
S15	1	asynchron\$6 with ("parallel bus" pci) with (serially adj exchang\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 11:57
S16	335	asynchron\$6 with ("parallel bus" pci) with serial\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 11:57
S17	43	asynchron\$6 with ("parallel bus" pci) with serial\$5 with module	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 11:58
S18	6	@ad< "20000419" and S17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 11:58
S19	79	asynchron\$6 with ("parallel bus" pci) with module	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 12:00

S20	1842789	@ad< "20000419" and "35"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 12:00
S21	15	@ad< "20000419" and S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 12:00
S22	335	asynchron\$6 with ("parallel bus" pci) with serial\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 12:01
S23	51	@ad< "20000419" and S22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/04 12:01
S24	79	((("7657678") or ("20010011312") or ("20020078289") or ("20010037423") or ("20020135536") or ("20030120849") or ("20040024809") or ("20040054757") or ("20040024809") or ("20040054757") or ("20040088452") or ("20050036509") or ("20050129385") or ("20050174488") or ("20060075166") or ("3800097") or ("4112369") or ("4413319") or ("4504927") or ("4535421") or ("4591660") or ("4787029") or ("4882702") or ("4901308") or ("4941845") or ("4954949") or ("4959833") or ("4961140") or ("4969830") or ("5006981") or ("5038320") or ("5111423") or ("5134702") or ("5187645") or ("5191653") or ("5191657") or ("5237690") or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 12:35

		("5274711").PN.				
S25	64	("5301349") or ("5313589") or ("5325491") or ("5335326") or ("5335329") or ("5357621") or ("5373149") or ("5377184") or ("5430847") or ("5432916") or ("5440698") or ("5446869") or ("5452180") or ("5477415") or ("5483020") or ("5488705") or ("5495569") or ("5497498") or ("5507002") or ("5517623") or ("5522050") or ("5524252") or ("5530895") or ("5540597") or ("5542055") or ("5548730") or ("5555510") or ("5561806") or ("5572525") or ("5572688") or ("5579489") or ("5579491").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 12:39
S26	68	("5586265") or ("5590377") or ("5611053") or ("5632020") or ("5634080") or ("5655142") or ("5694556") or ("5696911") or ("5696949") or ("5701483") or ("5724529") or ("5736968") or ("5748921") or ("5764924") or ("5774681") or ("5781747") or ("5793995") or ("5793996") or ("5799207") or ("5802055") or ("5809262") or ("5815677") or ("5819053") or ("5832279") or ("5835741") or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 12:42

		("5854908") or ("5884027") or ("5905870") or ("5911055") or ("5913037") or ("5941965") or ("5948076") or ("5953511") or ("5968144")).PN.				
S27	71	((("5991304") or ("5991839") or ("6003105") or ("6026075") or ("6031821") or ("6035333") or ("6044215") or ("6058144") or ("6070214") or ("6084856") or ("6085278") or ("6098103") or ("6101563") or ("6115356") or ("6141744") or ("6157967") or ("6167029") or ("6167120") or ("6170022") or ("6201829") or ("6216185") or ("6222825") or ("6233639") or ("6237046") or ("6247086") or ("6247091") or ("6256691") or ("6260092") or ("6263385") or ("6263397") or ("6275888") or ("6295281") or ("6333929") or ("6366951") or ("6381661")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 12:45
S28	61	((("6385671") or ("6401157") or ("6418492") or ("6418494") or ("6418504") or ("6421352") or ("6425033") or ("6430635") or ("6445711") or ("6446192") or ("6452927") or ("6456590") or ("6457081") or ("6457091") or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 12:48

		("6473810") or ("6493745") or ("6567876") or ("6578101") or ("6581125") or ("6594719") or ("6671737") or ("6715022") or ("6728822") or ("6778543") or ("6788101") or ("6950440") or ("7047326") or ("7269680") or ("7356643")).PN.				
S29	2	("5991304").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 13:00
S30	9	asynchron\$6 with ("parallel bus" pci) with (serial\$5 adj link)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 06:59
S31	4	@ad< "20000419" and S30	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 06:59
S32	1	asynchron\$6 with ("parallel bus" pci) with (serial\$5 adj exchange\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 07:33
S33	1	asynchron\$6 with ("parallel bus" pci) with (serial\$5 near6 exchange \$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 07:33
S34	962	asynchron\$6 with ("parallel bus" pci)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 07:38
S35	2	asynchron\$6 with ("parallel bus" pci) and (serial\$5 adj exchange\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 07:39
S36	288	"710"/\$.cls. and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 07:39

S37	49	"710"/305-306.ccls. and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 07:39
S38	18	@ad< "20000419" and S37	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 07:39
S39	4	("parallel bus" pci) with asynchronous with handshaking	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:39
S40	3	@ad< "20000419" and S39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:39
S41	10	("parallel bus" pci) with asynchronous with handshak\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:40
S42	4	@ad< "20000419" and S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:40
S43	0	S42 not S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:40
S44	1	S42 not S40	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:40
S45	19	("parallel bus" pci) with asynchronous with "serial data"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:41
S46	5	@ad< "20000419" and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:41

S47	256	("parallel bus" pci) with asynchronous and "serial data"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:52
S48	146	("parallel bus" pci) with asynchronous and ("serial data" with (clk clock))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:53
S49	24	"710"/\$.ccls. and S48	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:53
S50	5	@ad< "20000419" and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:53
S51	4	@ad< "20000419" and S49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/15 08:54
S52	2	("5991304").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/15 09:06

11/ 15/ 10 12:43:32 PM

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				<i>Complete if Known</i>	
				Application Number	12/644,511
				Filing Date	December 22, 2009
				First Named Inventor	Ahern, Frank
				Art Unit	2111
				Examiner Name	Huynh, Kim
Sheet	1	of	1	Attorney Docket No: TALS0090	

US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate
/KH/		US-7734852	06/08/2010	Ahern, Frank W., et al.	
/KH/		US-RE41494	08/10/2010	Ahern, Frank W., et al.	

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document
				T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/KH/		"Gigabit Ethernet Transceiver Chip, Preliminary Technical Data", <u>Hewlett Packard</u> , pp. 711-725	
/KH/		"HP in Production of Gigabit Ethernet SerDes Transceiver Chips; IEEE 802.3z - compatible, Low Power Consumption", <u>Business Wire</u> , May 6, 1997, (05/06/1997), 3 pages	

EXAMINER

/Kim Huynh/ (11/15/2010)

DATE CONSIDERED

11/15/2010

<i>Index of Claims</i> 	Application/Control No. 12644511	Applicant(s)/Patent Under Reexamination AHERN ET AL.
	Examiner KIM T HUYNH	Art Unit 2111

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant				☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE							
Final	Original	06/07/2010	11/15/2010						
	1	✓	✓						
	2	✓	✓						
	3	✓	✓						
	4	✓	✓						
	5	✓	✓						
	6	✓	✓						
	7	✓	✓						
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	11	✓	✓						
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	31		✓						
	32		✓						
	33		✓						
	34		✓						
	35		✓						
	36								

<i>Index of Claims</i> 	Application/Control No. 12644511	Applicant(s)/Patent Under Reexamination AHERN ET AL.
	Examiner KIM T HUYNH	Art Unit 2111

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant				☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE							
Final	Original	06/07/2010	11/15/2010						
	37								
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Search Notes 	Application/Control No. 12644511	Applicant(s)/Patent Under Reexamination AHERN ET AL.
	Examiner KIM T HUYNH	Art Unit 2111

SEARCHED			
Class	Subclass	Date	Examiner
710	305-306; 100	6/7/2010	kh
370	413	6/7/2010	kh

SEARCH NOTES		
Search Notes	Date	Examiner
East-search (uspat; uspgpub; epo; jpo; derwent)	11/15/2010	kh
East-text search	11/15/2010	kh'
updated prior search	11/15/2010	kh

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>12/644,511</td> </tr> <tr> <td>Filing Date</td> <td>December 22, 2009</td> </tr> <tr> <td>First Named Inventor</td> <td>Ahern, Frank</td> </tr> <tr> <td>Art Unit</td> <td>2111</td> </tr> <tr> <td>Examiner Name</td> <td>Huynh, Kim</td> </tr> </table>		Application Number	12/644,511	Filing Date	December 22, 2009	First Named Inventor	Ahern, Frank	Art Unit	2111	Examiner Name	Huynh, Kim
Application Number	12/644,511														
Filing Date	December 22, 2009														
First Named Inventor	Ahern, Frank														
Art Unit	2111														
Examiner Name	Huynh, Kim														
Sheet	1	of	1	Attorney Docket No: TALS0090											

US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate
		US-7734852	06/08/2010	Ahern, Frank W., et al.	
		US-RE41494	08/10/2010	Ahern, Frank W., et al.	

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document
				T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Gigabit Ethernet Transceiver Chip, Preliminary Technical Data", <u>Hewlett Packard</u> , pp. 711-725	
		"HP in Production of Gigabit Ethernet SerDes Transceiver Chips; IEEE 802.3z - compatible, Low Power Consumption", <u>Business Wire</u> , May 6, 1997, (05/06/1997), 3 pages	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)
 * EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

Electronic Patent Application Fee Transmittal

Application Number:	12644511			
Filing Date:	22-Dec-2009			
Title of Invention:	Computing Module with Serial Data Connectivity			
First Named Inventor/Applicant Name:	Frank W. Ahern			
Filer:	William Breen/Kenneth Linder			
Attorney Docket Number:	TALS0090			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	1202	13	52	676
Independent claims in excess of 3	1201	2	220	440
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Extension - 1 month with \$0 paid	1251	1	130	130
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				1426

Electronic Acknowledgement Receipt

EFS ID:	8676987
Application Number:	12644511
International Application Number:	
Confirmation Number:	6489
Title of Invention:	Computing Module with Serial Data Connectivity
First Named Inventor/Applicant Name:	Frank W. Ahern
Customer Number:	75671
Filer:	William Breen/Kenneth Linder
Filer Authorized By:	William Breen
Attorney Docket Number:	TALS0090
Receipt Date:	21-OCT-2010
Filing Date:	22-DEC-2009
Time Stamp:	17:31:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1426
RAM confirmation Number	4326
Deposit Account	504143
Authorized User	SADLER,LANCE R.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		TALS0090NFOAResponse1.pdf	137081 9ba7bd07d0c8ef4642b5faca673a5afc571a cfd8	yes	15
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	7	
	Applicant summary of interview with examiner		8	8	
	Applicant Arguments/Remarks Made in an Amendment		9	15	
Warnings:					
Information:					
2		TALS0090IDS.pdf	156763 918553cb9de7294f330f7a404be8346416e e28cd	yes	3
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Filed (SB/08)		3	3	
Warnings:					
Information:					
3	NPL Documents	HDMP-1636.pdf	333603 7554810a3557f2a86c897f56f17356f05d46 64a5	no	16
Warnings:					
Information:					
4	NPL Documents	BusinessWireArticle.pdf	113927 e1a3cde1db886812097723770465d33dc4 14f42f	no	3
Warnings:					
Information:					

5	Fee Worksheet (PTO-875)	fee-info.pdf	35138 e2d322bfe20c395875e9efbab9bda6c830e448bb	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				776512	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. 12/644,511
Filing Date December 22, 2009
Confirmation No. 6489
Applicant Tao Logic Systems LLC
Inventorship Frank W. Ahern, et al.
Group Art Unit 2111
Examiner Huynh, Kim T.
Attorney's Docket No. TALS0090
Title: A Computing Module with Serial Data Connectivity

RESPONSE TO OFFICE ACTION DATED JUNE 21, 2010

To: Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

From: Allan T. Sponseller (Tel. 509-755-7255; Fax 509-755-7252)
Sadler, Breen, Morasch & Colby p.s.
600 W. Main Ave., Suite 1300
Spokane, WA 99201

Customer No. 75671

Sir:

In response to the Office Action of June 21, 2010 in connection with the above-identified application, the following remarks are submitted. Favorable consideration is respectfully requested.

A detailed listing of the claims is provided below. A status identifier is provided for each claim in a parenthetical expression following each claim number.

The Claims

1. (Currently amended) An apparatus ~~computing module~~ comprising:
a processor;
a parallel ~~system~~ bus; and
an interface configured to receive parallel data from the parallel bus and
configured to asynchronously, serially exchange serial data, corresponding to the parallel
~~system-bus data,~~ with one or more ~~other~~ modules without requiring handshaking of a
~~computer system that includes the computing module.~~
2. (Currently amended) The apparatus ~~computing module~~ as recited in claim 1,
wherein the interface comprises a bridge.
3. (Canceled).
4. (Currently amended) The apparatus ~~computing module~~ as recited in claim 1,
wherein the computing first module is separated from each of the one or more ~~other~~
modules ~~of the computer system~~ by a distance of at least a meter.
5. (Currently amended) The apparatus ~~computing module~~ as recited in claim 1,
wherein ~~each of the one or more other modules~~ include one or more of ~~comprises a~~
~~module selected from a group including:~~ a disk drive, a keyboard, a mouse, a monitor, a
printer, an Internet connection, a wireless accessory, ~~and~~ or a storage module.

6. (Currently amended) A method comprising[[,]]:
receiving, ~~at a first module, first parallel bus data;~~
asynchronously, serially transferring first serial data, corresponding to the first
parallel bus data, from a first module to a second module via a serial link without using
handshaking;
~~receiving, at the second module, second parallel bus data; and~~
asynchronously, serially transferring second serial data, corresponding to the
second parallel bus data, from the second module to the first module via the serial link
without using handshaking.
7. (Canceled).
8. (Original) The method as recited in claim 6, wherein the first module comprises a processor module including a CPU and memory, and wherein the second module comprises a peripheral device.
9. (Original) The method as recited in claim 8, wherein the peripheral device comprises a hard drive.
10. (Original) The method as recited in claim 6, wherein the first module is separated from the second module by a distance of at least a meter.
11. (Original) The method as recited in claim 6, wherein the first module and the second module each comprises a portable computing device.

12. (Currently amended) The method as recited in claim 6, wherein the first module comprises one of: a disk drive, a keyboard, a mouse, a monitor, a printer, an Internet connection, a wireless accessory, ~~and~~ or a storage module.

13. (Currently amended) ~~A method in a first module of a computer system including the first module and a second module coupled together via a serial link, the method comprising:~~

~~receiving first parallel bus data;~~

~~asynchronously, serially transferring first serial data, corresponding to the first parallel bus data, from a first module to a the second module using a via the serial link;~~
~~and~~

~~asynchronously, serially receiving second serial data, corresponding to second parallel bus data, from the second module using via the serial link; and~~

~~generating a first clock signal, for use by the first module, using the second serial data.~~

14. (Currently amended) The method as recited in claim 13, wherein the asynchronously, serially transferring the first serial ~~parallel-bus~~ data comprises asynchronously, serially transferring the first serial ~~parallel-bus~~ data without requiring handshaking.

15. (Original) The method as recited in claim 13, wherein the first module is separated from the second module by a distance of at least several meters.

16. (Original) The method as recited in claim 13, wherein the first module and the second module each comprises a portable computing device.

17. (Currently amended) The method as recited in claim 13, wherein the second module comprises one of: a disk drive, a keyboard, a mouse, a monitor, a printer, an Internet connection, a wireless accessory, ~~and~~ or a storage module.

18. (Original) The method as recited in claim 13, wherein the first module comprises a processor module including a CPU and memory, and wherein the second module comprises a peripheral device.

19. (Original) The method as recited in claim 13, wherein the first module comprises a hard drive.

20. (Original) The method as recited in claim 13, wherein the first module comprises a memory device.

21. (New) A computing module comprising:

a processor;

a parallel bus; and

a first interface coupled to a serial communications link and configured to asynchronously, serially exchange serial data corresponding to parallel bus data received from the parallel bus, via the serial communications link, with an additional module of a

computer system that includes the computing module, the additional module including a second interface coupled to the serial communications link.

22. (New) The computing module as recited in claim 21, wherein the first interface comprises a bridge.

23. (New) The computing module as recited in claim 21, wherein the first interface is further configured to asynchronously, serially exchange the parallel bus data without requiring handshaking.

24. (New) The computing module as recited in claim 21, further comprising:
a device configured to generate a clock signal from serial data received from the additional module via the serial communications link.

25. (New) The computing module as recited in claim 21, wherein the computing module is separated from the additional module of the computer system by a distance of at least a meter.

26. (New) The computing module as recited in claim 21, wherein the additional module comprises one or more of: a disk drive, a keyboard, a mouse, a monitor, a printer, an Internet connection, a wireless accessory, or a storage module.

27. (New) A computing module comprising:
a processor;

a parallel bus;

an interface configured to asynchronously, serially exchange serial data corresponding to parallel bus data with one or more modules of a computer system that includes the computing module; and

a device configured to generate a clock signal from the serial data.

28. (New) The computing module as recited in claim 27, wherein:

the serial data corresponds to the parallel bus data received at the interface from the parallel bus.

29. (New) The computing module as recited in claim 27, wherein:

the interface includes a configuration to serially exchange the serial data without requiring handshaking.

30. (New) The computing module as recited in claim 27, wherein the interface comprises a bridge.

31. (New) The computing module as recited in claim 27, wherein the computing module is separated from the one or more modules of the computer system by a distance of at least a meter.

32. (New) The computing module as recited in claim 27, wherein each of the one or more modules of the computer system comprises one of: a disk drive, a keyboard, a

mouse, a monitor, a printer, an Internet connection, a wireless accessory, or a storage module.

33. (New) The apparatus as recited in claim 1, further comprising:

a device configured to generate a clock signal, for use by the apparatus, from serial data asynchronously, serially received from the one or more modules.

34. (New) The method as recited in claim 6, further comprising:

generating a clock signal, for use by the first module, using the second serial data.

35. (New) The method as recited in claim 13, further comprising:

generating a second clock signal, for use by the second module, using the first serial data.

REMARKS

Applicant respectfully requests reconsideration and allowance of the subject application. New claims 21-35 have been added. Claims 3 and 7 have been canceled without prejudice. Claims 1, 2, 4-6, and 8-35 are pending in this application.

Applicant makes no representation that cited references are prior art. This response and any remarks or comments included herein are not intended to be, and are not to be interpreted as, an admission that any cited references are prior art. Applicant reserves the right to dispose of any cited reference under 35 U.S.C. §102 and/or 35 U.S.C. §103, including but not limited to antedating any one or more of the cited references.

Examiner Interview

The undersigned wishes to thank Examiner Kim Huynh for her time during a telephonic interview that was conducted on September 14, 2010. During the interview, the undersigned and Examiner Huynh discussed U.S. Patent No. 5,991,304 to Abramson, and amendments to the claims to include one or more additional modules each including an interface coupled to the serial communications link. Examiner Huynh indicated that additional review of a written response and the Abramson reference would be needed before an agreement as to the allowability of the claims could be reached. No agreement as to the allowability of the claims was reached.

Double Patenting

Claims 1-20 stand rejected on the ground of nonstatutory double patenting over claims 1-38 of parent application 11/300,131. Applicant notes the nonstatutory double patenting rejection, and will submit a terminal disclaimer to overcome the nonstatutory double patenting rejection if the nonstatutory double patenting rejection remains when the claims of the present application are allowed.

35 U.S.C. § 102

Claims 1-20 stand rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 5,991,304 to Abramson (hereinafter “Abramson”). Claims 3 and 7 are canceled without prejudice. Applicant respectfully traverses the rejection of claims 1, 2, 4-6, 8-20, and submits that claims 1, 2, 4-6, 8-20 are not anticipated by Abramson.

Amended **claim 1** is directed to an apparatus comprising:

- a processor;
- a parallel bus; and
- an interface configured to receive parallel data from the parallel bus and configured to asynchronously, serially exchange serial data, corresponding to the parallel data, with one or more modules without requiring handshaking.

Applicant respectfully submits that Abramson does not disclose an apparatus as recited in amended claim 1.

In the June 21, 2010 Office Action at ¶ 3, p. 6, with reference to claim 3, it was asserted that Abramson at col. 3, lines 1-65 “discloses wherein the interface is further configured to asynchronously, serially exchange the parallel system bus data without requiring handshaking”. Abramson at col. 3, lines 1-65 discusses that a south bridge 140 bridges transactions from the PCI bus 130 and a serial bus 160, and that in the preferred

embodiment the serial bus is a 1394 serial bus in accordance with “IEEE 1394-1995 High Performance Serial Bus” (see, col. 3, lines 36-40). However, Applicant respectfully submits that nowhere in Abramson is there any discussion or mention to asynchronously, serially exchange serial data **without requiring handshaking** as recited in amended claim 1. Applicant respectfully submits that merely mentioning bridging transactions from the PCI bus to a serial bus, or use of 1394 serial bus, does not disclose to asynchronously, serially exchange serial data **without requiring handshaking**. If the Office maintains its assertion that Abramson discloses to asynchronously, serially exchange serial data without requiring handshaking, Applicant respectfully requests that the Office identify specifically where Abramson discloses to asynchronously, serially exchange serial data without requiring handshaking.

As Abramson does not disclose to asynchronously, serially exchange serial data without requiring handshaking, Applicant respectfully submits that Abramson does not disclose the apparatus of amended claim 1. For at least these reasons, Applicant respectfully submits that amended claim 1 is allowable over Abramson.

With respect to amended **claim 6**, Applicant respectfully submits that, similar to the discussion above regarding amended claim 1, Abramson does not disclose asynchronously, serially transferring first serial data, corresponding to first parallel bus data, from a first module to a second module via a serial link without using handshaking; and asynchronously, serially transferring second serial data, corresponding to second parallel bus data, from the second module to the first module via the serial link without using handshaking as recited in amended claim 6. For at least these reasons, Applicant respectfully submits that amended claim 6 is allowable over Abramson.

Amended **claim 13** is directed to a method comprising:

- asynchronously, serially transferring first serial data, corresponding to first parallel bus data, from a first module to a second module using a serial link;
- asynchronously, serially receiving second serial data, corresponding to second parallel bus data, from the second module using the serial link; and
- generating a first clock signal, for use by the first module, using the second serial data.

Applicant respectfully submits that Abramson does not disclose a method as recited in amended claim 13.

Amended claim 13 recites generating a first clock signal, for use by the first module, using the second serial data. Support for this amendment can be found at, for example, col. 6, lines 33-46 and col. 8, lines 38-53 of U.S. Patent No. 6,070,214, which is incorporated by reference in the present application. Applicant respectfully submits that Abramson is not cited as disclosing, and does not disclose, generating a first clock signal, for use by the first module, using the second serial data. Without any such disclosure, Applicant respectfully submits that Abramson cannot disclose generating a first clock signal, for use by the first module, using the second serial data as recited in amended claim 13. For at least these reasons, Applicant respectfully submits that amended claim 13 is allowable over Abramson.

Claims 2, 4, and 5 depend from amended claim 1, **claims 8-12** depend from amended claim 6, and **claims 14-20** depend from amended claim 13, and Applicant respectfully submits that claims 2, 4, 5, 8-12, and 14-20 are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in their respective base claims, are neither disclosed nor suggested in the references cited and applied by the Office.

Applicant respectfully requests that the §102 rejections be withdrawn.

New claims

New claims 21-35 are added. New claim 21 recites a processor; a parallel bus; and a first interface coupled to a serial communications link and configured to asynchronously, serially exchange serial data corresponding to parallel bus data received from the parallel bus, via the serial communications link, with an additional module of a computer system that includes the computing module, the additional module including a second interface coupled to the serial communications link.

In the June 21, 2010 Office Action at ¶ 3, p. 5, the interface of claim 1 is asserted as being disclosed by arbitration module 215 of Abramson. The arbitration module 215 of Abramson is coupled to asynchronous transmit module 220 (referred to as “ATX module”), isochronous transmit module 225 (referred to as “ITX module”), and receive module 230, and performs the necessary arbitration between ATX, ITX, and receive modules 220, 225, and 230 to access the PCI bus 130 (see, col. 3, lines 58-64). However, nowhere in Abramson is there any discussion or mention of arbitration module 215, or any other interface, being coupled to a serial communications link and configured to asynchronously, serially exchange serial data corresponding to parallel bus data with an additional module via the serial communications link coupled to a second interface of the additional module as recited in new claim 21. Without any such discussion or mention, Applicant respectfully submits that Abramson cannot disclose the computing module of new claim 21. For at least these reasons, Applicant respectfully submits that new claim 21 is allowable over the cited references.

New claims 22-26 depend from new claim 21, and Applicant respectfully submits that new claims 22-26 are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in their respective base claims, are neither disclosed nor suggested in the references cited and applied by the Office. For at least these reasons, Applicant respectfully submits that new claims 22-26 are allowable over the cited references.

New claim 27 recites a processor; a parallel bus; an interface configured to asynchronously, serially exchange serial data corresponding to parallel bus data with one or more modules of a computer system that includes the computing module; and a device configured to generate a clock signal from the serial data. Applicant respectfully submits that the cited references do not disclose or suggest an interface configured to asynchronously, serially exchange serial data corresponding to parallel bus data with one or more modules of a computer system that includes the computing module; and a device configured to generate a clock signal from the serial data as recited in new claim 27. For at least these reasons, Applicant respectfully submits that new claim 27 is allowable over the cited references.

New claims 28-32 depend from new claim 27, and Applicant respectfully submits that new claims 28-32 are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in their respective base claims, are neither disclosed nor suggested in the references cited and applied by the Office. For at least these reasons, Applicant respectfully submits that new claims 28-32 are allowable over the cited references.

New claim 33 depends from amended claim 1, new claim 34 depends from amended claim 6, and new claim 35 depends from amended claim 13, and Applicant respectfully submits that new claims 33-35 are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in their respective base claims, are neither disclosed nor suggested in the references cited and applied by the Office. For at least these reasons, Applicant respectfully submits that new claims 33-35 are allowable over the cited references.

Conclusion

All of the claims are in condition for allowance. Accordingly, Applicant requests that the Office issue a Notice of Allowability. If the Office's next anticipated action is to be anything other than issuance of a Notice of Allowability, Applicant respectfully requests a telephone call for the purpose of scheduling an interview.

Respectfully Submitted,

Date: October 21, 2010

By: /Allan T. Sponseller, Reg. #38,318/
Allan T. Sponseller
Reg. No. 38,318
(509) 755-7255

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Frank W. Ahern et al.	Examiner:	Kim T Huynh
Serial No.:	12/644,511	Group Art Unit:	2111
Filed:	December 22, 2009	Docket:	TALS0090
Title:	A Computing Module with Serial Data Connectivity		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the referenced materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 50-4143.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No :12/644,511

Filing Date: December 22, 2009

Title: A Computing Module with Serial Data Connectivity

Page 2

Dkt: TALS0090

Respectfully submitted,

Frank W. Ahern et al.

By their Representatives,

Date October 21, 2010

By /Allan T. Sponseller, Reg. #38,318/

Allan T. Sponseller

Reg. No. 38,318

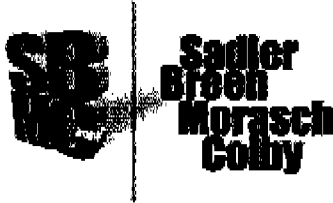
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/644,511		Filing Date 12/22/2009		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)			SMALL ENTITY ☐ OR		OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=		X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.					TOTAL		TOTAL			
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	10/21/2010	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 33	Minus	** 20	=	13		X \$52=	676	
	Independent (37 CFR 1.16(h))	* 5	Minus	***3	=	2		X \$220=	440	
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
					TOTAL ADD'L FEE			TOTAL ADD'L FEE	1116	
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=			X \$	=	
	Independent (37 CFR 1.16(h))	*	Minus	***	=			X \$	=	
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
					TOTAL ADD'L FEE			TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/DEBORAH PORTER/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Fax Transmittal

**To: Examiner Kim Huynh
Art Unit 2111**

Fax: (571) 273-3635

From: Allan Sponseller (509-755-7255)

Date: August 17, 2010

Pages (including cover): 4

Notes:

See attached Interview Request Form and proposed amendments.

**Thanks,
Allan**

**Sadler, Breen, Morasch & Colby, PS
422 W. Riverside Ave. Ste 424
Spokane, WA 99201
Phone: (509) 755-7262 -- Fax: (509) 755-7252**

Applicant Initiated Interview Request Form

Application No.: 12/644,511Examiner: Kim HuynhFirst Named Applicant: Frank W. AhernArt Unit: 2111Status of Application: nonfinal OA
issued**Tentative Participants:**(1) Kim Huynh(2) Allan Sponseller

(3) _____

(4) _____

Proposed Date of Interview: _____

Proposed Time: _____ (AM/PM)

Type of Interview Requested:(1) ☒ Telephonic(2) ☐ Personal(3) ☐ Video ConferenceExhibit To Be Shown or Demonstrated: ☐ YES☒ NO

If yes, provide brief description: _____

Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) <u>35 USC 102</u>	<u>1-20</u>	<u>5,991,304</u>	☐	☐	☐
(2) _____	_____	_____	☐	☐	☐
(3) _____	_____	_____	☐	☐	☐
(4) _____	_____	_____	☐	☐	☐
☐ Continuation Sheet Attached					

Brief Description of Arguments to be Presented:would like to discuss attached proposed claim amendments.

An interview was conducted on the above-identified application on _____.

NOTE: This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01).

This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

Applicant/Applicant's Representative Signature_____
Examiner/SPE Signature_____
Typed/Printed Name of Applicant or Representative_____
Registration Number, if applicable

This collection of information is required by 37 CFR 1.133. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Proposed Claim Amendments

1. (Currently amended) A computing module comprising:
a processor;
a parallel system bus; and
an interface coupled to a serial communications link and configured to asynchronously, serially exchange parallel system bus data, via the serial communications link, with one or more other modules of a computer system that includes the computing module, the one or more other modules each including an interface coupled to the serial communications link.

6. (Currently amended) A method in a computer, the method comprising[[],]:
receiving, at a first module of the computer, first parallel bus data;
asynchronously, serially transferring the first parallel bus data from an interface of the first module to an interface of a second module via a serial link coupled to the first module and the second module;
receiving, at the second module, second parallel bus data; and
asynchronously, serially transferring the second parallel bus data from the interface of the second module to the interface of the first module via the serial link.

13. (Currently amended) A method in a first module of a computer system including the first module and a second module coupled together via a serial link, the method comprising:
receiving first parallel bus data;

Proposed Claim Amendments

asynchronously, serially transferring the first parallel bus data to the second module from an interface of the first module to an interface of the second module via the serial link; and

asynchronously, serially receiving second parallel bus data at the interface of the first module from the interface of the second module via the serial link,



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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12/644,511

12/22/2009

Frank W. Ahern

TALS0090

6489

75671 7590 09/20/2010
Sadler, Breen, Morasch & Colby, ps
601 W. Main Ave.
Suite 1300
Spokane, WA 99201

EXAMINER

HUYNH, KIM T

ART UNIT

PAPER NUMBER

2111

NOTIFICATION DATE

DELIVERY MODE

09/20/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptocorrespondence@sbsmc-law.com

Interview Summary	Application No. 12/644,511	Applicant(s) AHERN ET AL.	
	Examiner KIM T. HUYNH	Art Unit 2111	

All participants (applicant, applicant's representative, PTO personnel):

(1) KIM T. HUYNH, (USPTO). (3) ____.

(2) Allan Sponseller (Reg. #38318). (4) ____.

Date of Interview: 14 September 2010.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☒ Yes e) ☐ No.
If Yes, brief description: interview agenda fax received on 8/17/2009.

Claim(s) discussed: 1.

Identification of prior art discussed: Abramson.

Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☒ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Discussed a potential amendment which may overcome the cited reference. Applicant was advised to submit the amendment with the arguments for further consideration.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

	/Mark Rinehart/ Supervisory Patent Examiner, Art Unit 2111
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Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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12/644,511

12/22/2009

Frank W. Ahern

TALS0090

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75671 7590 06/21/2010
Sadler, Breen, Morasch & Colby, ps
422 W. Riverside Ave, Suite 424
Spokane, WA 99201

EXAMINER

HUYNH, KIM T

ART UNIT

PAPER NUMBER

2111

NOTIFICATION DATE

DELIVERY MODE

06/21/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptocorrespondence@sbmc-law.com

Office Action Summary	Application No. 12/644,511	Applicant(s) AHERN ET AL.	
	Examiner KIM T. HUYNH	Art Unit 2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 December 2009 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>4/23/2010 & 12/22/2009</u> . | 6) ☐ Other: _____ |

DETAILED ACTION***Double Patenting***

1. Claims 1-20 of this application conflict with claims 1-38 of Application No. 11/300,131. 37 CFR 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application.

Applicant is required to either cancel the conflicting claims from all but one application or maintain a clear line of demarcation between the applications. See MPEP § 822.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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2. Claims 1-20 are rejected on the ground of nonstatutory double patenting over claims 1-38 of parent application 11/300,131. Claim 1 of the instant application is unpatentable under the judicially created doctrine of “obviousness-type” double patenting with respect to claim 1 of parent application 11/300,131.

Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 1 of the instant application is anticipated by parent claim 1 in that claim 1 of the patent contains all the limitations of claim 1 of the instant application. Claim 1 of the instant application therefore is not patently distinct from the earlier patent claim and as such is unpatentable for obvious-type double patenting. See *In re Goodman*(CA FC) 29 USPQ2d 2010(12/3/1993)

Claim 1 of the Parent (11/300131),as shown in the table below contains every element of claim 1 of the instant application and as such anticipates claim 1 of the Instant Application.

And The limitations of the remaining claims 2-20 are found, with minor variations, in the recitation of parent claims 2-38.

<u>Parent (11/300,131)</u>	<u>Instant Application(12/644511)</u>
A spatially separated computer system, comprising:	A computing module comprising:
a first connectivity station having a first interface adapted to asynchronously,	An interface configured to asynchronously , serially exchange

serially exchange parallel bus data thereacross;	parallel system bus data with one or more other modules of a computer system that includes the computing module.
A computing module disposed in the first connectivity station and including a processing unit adapted to create the parallel bus data on a system bus coupled to the first interface;	A processor;
A first module remotely positioned relative to the first connectivity station and having an interface coupled to the first connectivity station first interface via a serial communications link, wherein the first module is adapted to cooperate with the processing unit; and	
Wherein the first module and the first connectivity station asynchronously, serially transfer the parallel bus data there between via the serial communications link and collectively	

operate as a single computer.	
-------------------------------	--

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Abramson (US Patent 5,991,304)

As per 1, Abramson discloses a computing module comprising:

a processor; (fig.1, 105)

a parallel system bus; and (fig.1, 130)

an interface (i.e., arbitration 215) configured to asynchronously,

serially exchange parallel system bus data with one or more other

modules of a computer system that includes the computing module. (col.3,

lines 1-65, i.e., arbitration module performs the necessary arbitration

between the modules)

As per claim 2, Abramson discloses wherein the interface comprises a

bridge. (fig.2, 210)

As per claim 3, Abramson discloses wherein the interface is further configured to asynchronously, serially exchange the parallel system bus data without requiring handshaking. (col.3, lines 1-65)

As per claims 4, 10, 15, Abramson discloses wherein the computing module is separated from each of the one or more other modules of the computer system by a distance of at least a meter. (col.2, lines 53-65)

As per claim 5, Abramson discloses wherein each of the one or more other modules comprises a module selected from a group including: a disk drive, a keyboard, a mouse, a monitor, a printer, an Internet connection, a wireless accessory, and a storage module. (col.3, lines 25-37)

As per claims 6,13, Abramson discloses a method comprising:

receiving, at a first module, first parallel bus data; (col.3,lines 17-65)
asynchronously, serially transferring the first parallel bus data to a second module via a serial link; (col.3, line 17-col.4, line 44, i.e.,
transferring from system memory via PCI to serial nodes via serial bus)
receiving, at the second module, second parallel bus data; and
asynchronously, serially transferring the second parallel bus data to the first module via the serial link. (col.3, line 17-col.4, line 44, i.e.,
transferring from system memory via PCI to serial nodes via serial bus)

As per claims 7, 14, Abramson discloses wherein the asynchronously, serially transferring the first parallel bus data comprises asynchronously, serially transferring the first parallel bus data without requiring handshaking. col.3, line 17-col.4, line 44, i.e., transferring from system memory via PCI to serial nodes via serial bus)

As per claims 8, 18, 20, Abramson discloses wherein the first module comprises a processor module including a CPU and memory, and wherein the second module comprises a peripheral device. (col.3, lines 17-65)

As per claims 9,19, Abramson discloses wherein the peripheral device comprises a hard drive. (col.3, lines 17-65)

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As per claims 11, 16, Abramson discloses wherein the first module and the second module each comprises a portable computing device. (col.3, lines 17-65)

As per claims 12,17, Abramson discloses wherein the first module comprises one of: a disk drive, a keyboard, a mouse, a monitor, a printer, an Internet connection, a wireless accessory, and a storage module. (col.3, lines 17-65)

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (571)272-3635 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 9.00AM- 6:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached at (571)272-3632 or via e-mail addressed to [mark.rinehart@uspto.gov].

The fax phone numbers for the organization where this application or proceeding is assigned are (571)273-8300 for regular communications and After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-2100.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. T. H./

Examiner, Art Unit 2111

/Mark Rinehart/

Supervisory Patent Examiner, Art Unit 2111

Notice of References Cited	Application/Control No. 12/644,511		Applicant(s)/Patent Under Reexamination AHERN ET AL.	
	Examiner KIM T. HUYNH		Art Unit 2111	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,991,304	11-1999	Abramson, Darren L.	370/413
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.