

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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 12:35

		("5111423") or ("5134702") or ("5187645") or ("5191653") or ("5191657") or ("5237690") or ("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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 12:42

		("5802055") or ("5809262") or ("5815677") or ("5819053") or ("5832279") or ("5835741") or ("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 ("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.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/04 12:48
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 exchang\$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 exchang \$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 exchang\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 07:39
S36	288	"710"/\$.ccls. 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
S53	2	("5991304").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/29 08:20

7/ 7/ 11 8:07:36 AM

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Receipt date: 06/16/2011

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

12644511 - GAI: 2111

P10/05/09a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

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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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Receipt date: 06/16/2011 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12644511	12644511 - GAU: 2111
	Filing Date		2009-12-22	
	First Named Inventor	Frank W. Ahern		
	Art Unit	2111		
	Examiner Name	Huynh, Kim T.		
	Attorney Docket Number	MOBI-0004P1C2C		

/KH/	1	Written Opinion; Mail Date 12 FEB 2002, for related family application PCT/US2001/12678	☐
/KH/	2	International Preliminary Examination Report; Mail Date 3 APR 2002, for related family application PCT/US2001/12678.	☐
/KH/	3	Written Opinion; Mail Date 4 FEB 2002, for related family application PCT/US2001/12666.	☐
/KH/	4	HP Technical Data Sheet, "Gigabit Ethernet SerDes IC, Technical Data", Hewlett Packard Co., copyright 1999.	☐

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EXAMINER SIGNATURE

Examiner Signature	/Kim Huynh/ (07/07/2011)	Date Considered	07/07/2011
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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.

Substitute for form 1449A/PTO			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		<i>Complete if Known</i>	
		Application Number	Unknown 12/644511
		Filing Date	December 22, 2009
		First Named Inventor	Ahern, Frank
		Art Unit	Unknown 2111
		Examiner Name	Unknown Kim Huynh
Sheet	5	of	10
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-6385671	05/07/2002	Hunsaker, Mikal C., et al.	
		US-6401157	06/04/2002	Nguyen, Vincent et al.	
		US-6418492	07/09/2002	Papa, Stephen E.	
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document	T ²
/KH/		CN-1473292	02/04/2004	Bruning, G. W.	

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/Kim Huynh/ (05/12/2011)

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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	Unknown 12/644511	
			Filing Date	December 22, 2009	
			First Named Inventor	Ahern, Frank	
			Art Unit	Unknown 2111	
			Examiner Name	Unknown Kim Huynh	
Sheet	1	of	10	Attorney Docket No: TALS0090	

Change(s) applied
to document,
/G.R.P./
7/6/2011

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-20010011312	08/02/2001	Chu, William	
		US-20010037423	11/01/2001	Conway, Craig M., et al.	
		US-20020078289	06/20/2002	Morrow, Neil G.	
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		US-4112369	09/05/1978	Forman, Aubry S., et al.	
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		US-4504927	03/12/1985	Callan, John E.	
		US-4535421	08/13/1985	Duvel, Edward C., et al.	
		US-4591660	05/27/1986	Scordo, Dominick	
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		US-4941845	07/17/1990	Eppley, Mark et al.	
		US-4954949	09/04/1990	Rubin, Henri	
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		US-5006981	04/09/1991	Beltz, Dietmar et al.	
		US-5038320	08/06/1991	Heath, Chester A., et al.	
		US-5111423	05/05/1992	Kopec, Jr., Stanley J., et al.	
		US-5134702	07/28/1992	Charych, Harold et al.	
		US-5187645	02/16/1993	Spalding, Tom J., et al.	
		US-5191653	03/02/1993	Banks, John D., et al.	
		US-5191657	03/02/1993	Ludwig, Thomas E., et al.	
		US-5237690	08/17/1993	Bealkowski, Richard et al.	
		US-5274711	12/28/1993	Rutledge, Janet C., et al.	

EXAMINER

/Kim Huynh/ (05/12/2011)

DATE CONSIDERED

05/12/2011

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)

Application Number	12644511	Filing Date	2009-12-22	Docket Number (if applicable)	MOBI-0004P1C2C	Art Unit	2111
First Named Inventor	Frank W. Ahern			Examiner Name	Huynh, Kim T.		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☐ Amendment/Reply

☒ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☒ Other
Supplemental Sheet for IDS.

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____.
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to
Deposit Account No 504160

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

Signature of Registered U.S. Patent Practitioner			
Signature	/Lin C. Hsu/	Date (YYYY-MM-DD)	2011-06-16
Name	Lin C. Hsu	Registration Number	46315

This collection of information is required by 37 CFR 1.114. 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 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.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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.

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		

U.S.PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
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If you wish to add additional U.S. Patent citation information please click the Add button.

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U.S.PATENT APPLICATION PUBLICATIONS							Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
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FOREIGN PATENT DOCUMENTS								Remove
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

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NON-PATENT LITERATURE DOCUMENTS				Remove
Examiner Initials*	Cite No	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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵	

**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	Written Opinion; Mail Date 12 FEB 2002, for related family application PCT/US2001/12678	☐
2	International Preliminary Examination Report; Mail Date 3 APR 2002, for related family application PCT/US2001/12678.	☐
3	Written Opinion; Mail Date 4 FEB 2002, for related family application PCT/US2001/12666.	☐
4	HP Technical Data Sheet, "Gigabit Ethernet SerDes IC, Technical Data", Hewlett Packard Co., copyright 1999.	☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*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)	2011-06-16
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.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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.

SUPPLEMENTAL SHEET INCLUDING COMMENTS TO RCE TRANSMITTAL

- 1) Please consider the Examination Report, EP Application 01930580.4 (09/08/10), 5 pages, previously cited in IDS entered on 1 DEC 2010.
- 2) The currently submitted reference to "Gigabit Ethernet SerDes IC, Technical Data", Hewlett Packard Co., copyright 1999 is an updated and substitute reference for previously submitted reference to "Gigabit Ethernet Transceiver Chip, Preliminary Technical Data", HP pp.711-725, cited in IDS entered on 21 OCT 2010. The previously submitted Preliminary Technical Data sheet may have a reference date of May 1997, as indicated on the lower right portion of first page.

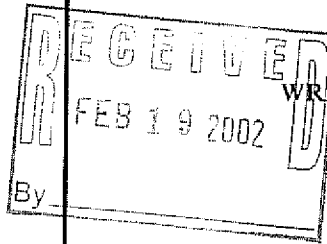
PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

Klinger, Robert C.
JACKSON WALKER, L.L.P.
2435 N. Central Expressway
Suite 600
Richardson, Texas 75080
ETATS-UNIS D'AMERIQUE



WRITTEN OPINION

(PCT Rule 66)

Date of mailing
(day/month/year)

12/02/2002

Applicant's or agent's file reference

101950.00058

REPLY DUE

within 1/00 months/days
from the above date of mailing

International application No.

PCT/US 01/ 12678

International filing date (day/month/year)

19/04/2001

Priority date (day/month/year)

19/04/2000

International Patent Classification (IPC) or both national classification and IPC

G06F13/40

Applicant

MOBILITY ELECTRONICS, INC.

Reply due: march 12, 2002

1. This written opinion is the first drawn up by this International Preliminary Examining Authority.

2. This opinion contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☒ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

3. The applicant is hereby **invited to reply** to this opinion.

When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

Also For an additional opportunity to submit amendments, see Rule 66.4.
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis.
For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is:

19/08/2002

Name and mailing address of the IPEA/

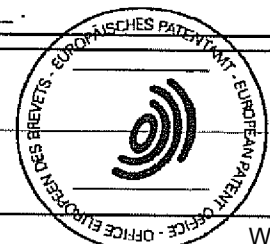


European Patent Office
D-80298 Munich
Tel. (+49-89) 2399-0, Tx: 523656 epmu d
Fax: (+49-89) 2399-4465

Authorized officer

Examiner

Formalities officer
(incl. extension of time limits)
Tel. (+49-89) 2399 2828



I. Basis of the opinion

1. The basis of this written opinion is the application as originally filed.

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

2. The question of whether the claimed invention appears to be novel, to involve an inventive step, or to be industrially applicable has not been and will not be the subject of the international preliminary examination (Article 34 (4) (a) (i) (ii) PCT; see also international search report) in respect of:
 - 2.1 Applications having an unnecessary plurality of independent claims (generally not more than 1 independent claim in the same category is necessary; Article 6 PCT);
 - 2.2 unsearched subject-matter (Article 17 (2) (a), Rule 66.1 (e) PCT), e.g.
 - 2.2.1 claimed subject-matter under Rule 39.1 PCT,
 - 2.2.2 applications where the description, the claims, or the drawings fail to comply with the prescribed requirements to such an extent that no meaningful search could have been carried out;
 - 2.3 claimed subject-matter under Rule 67.1 PCT.

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability

3. To the extent that the international preliminary examination has been carried out (see item III above), the following is pointed out:

In light of the documents cited in the international search report, it is considered that the invention as claimed in at least one of the independent claims does not appear to meet the criteria mentioned in Article 33 (1) PCT, i.e. does not appear to be novel and/or to involve an inventive step.

4. If amendments are filed, the Applicant must comply with the requirements of Rule 66.8 PCT and indicate the basis in the originally filed application of the amendments made (Article 34 (2) (b) PCT) otherwise these amendments will not be taken into consideration for the establishment of international preliminary examination.
The attention of the applicant is drawn to the fact that if the application contains an unjustified plurality of independent claims no examination of any of the claims will be carried out.

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/Mina Oliveri			
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:				
Request for continued examination	1801	1	810	810
Total in USD (\$)				810

Electronic Acknowledgement Receipt

EFS ID:	10325134
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:	45590
Filer:	Lin C. Hsu/Mina Oliveri
Filer Authorized By:	Lin C. Hsu
Attorney Docket Number:	TALS0090
Receipt Date:	16-JUN-2011
Filing Date:	22-DEC-2009
Time Stamp:	19:30:37
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	\$810
RAM confirmation Number	5886
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Request for Continued Examination (RCE)	MOBI-0004P1C2C_RCETransmit tal_6-16-2011l.pdf	697336 e32050fca9290a4faee1bc21c6a4891785891918	no	3
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	MOBI-0004P1C2C_IDSTransmit tal_6-16-2011.pdf	611839 015e943616ee3b589686f9e9468f3227a29e4425	no	4
Warnings:					
Information:					
A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.					
3	Miscellaneous Incoming Letter	MOBI-0004P1C2C_Supplemental_Sheet_for_IDS_6-16-2011.pdf	42960 375dacf801919549f831e3ce0a1aa8aa8117fb72	no	1
Warnings:					
Information:					
4	Non Patent Literature	ExaminationReport_md_4-3-2002.pdf	188445 b8776929b635bba71e0644e5b0d93a206b1309f6	no	5
Warnings:					
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing					
Information:					
5	Non Patent Literature	Gigabit_Ethernet_SerDes_IC.pdf	698099 eed7590bfde2c803e36b1815d14bc36b9dc6ad03	no	16
Warnings:					
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing					
Information:					
6	Non Patent Literature	PCT_WrittenOpinion_md_2-4-2002.pdf	146768 27658698c19585755372d50d36a92ea176280071	no	4
Warnings:					
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing					
Information:					
7	Non Patent Literature	PCT_writtenOpinion_md_2-12-2002.pdf	94133 9d730d24e96319bc00902ed6e676d605ee1ddfbfe	no	2
Warnings:					
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing					

Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	30529	no	2
			20ad14bbed39125285d31953308fee422aa aa736		
Warnings:					
Information:					
Total Files Size (in bytes):				2510109	
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.					

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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

45590

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

45590

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

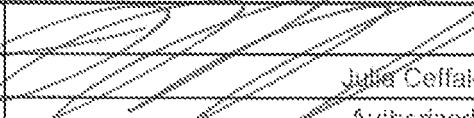
Assignee Name and Address:

Tao Logic Systems LLC
 3225 McLead Dr., Suite 100
 Las Vegas, NV 89121

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

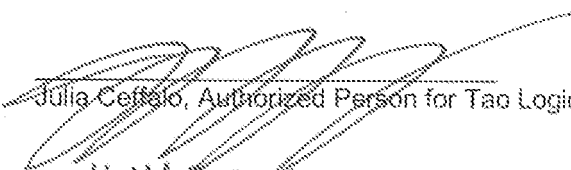
Signature		Date	11 MAR 2011
Name	Julie Ceffalo	Telephone	
Title	Authorized Person for Tao Logic Systems LLC		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. 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 3 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.

DECLARATION REGARDING AUTHORITY TO SIGN ON BEHALF OF A LEGAL ENTITY
(37 C.F.R. 3.73(b)(2)(i))

I, Julia Ceffalo (whose title is supplied below), hereby declare that I am authorized to sign on behalf of Tao Logic Systems LLC.



Julia Ceffalo, Authorized Person for Tao Logic Systems LLC

11 MAR 2011

[date]

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.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: TAO LOGIC SYSTEMS LLC

Application No./Patent No.: 12644511 Filed/Issue Date: 12/22/2009

Titled: COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

TAO LOGIC SYSTEMS LLC, a Limited Liability Company

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: INVENTORS To: MOBILITY ELECTRONICS, INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 010974, Frame 0126, or for which a copy thereof is attached.

2. From: MOBILITY ELECTRONICS, INC. To: TAO LOGIC SYSTEMS LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 016674, Frame 0720, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Jose S. Garcia/

05-18-2011

Signature

Date

Jose S. Garcia

Patent Practitioner

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). 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 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.**

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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 Acknowledgement Receipt

EFS ID:	10126829
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:	45590
Filer:	Jose S. Garcia/Donna Petford
Filer Authorized By:	Jose S. Garcia
Attorney Docket Number:	TALS0090
Receipt Date:	19-MAY-2011
Filing Date:	22-DEC-2009
Time Stamp:	14:03:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	Mobility_Electronics_POA_Declaration.pdf	1085340 8ee2fcb48d26ddd9787ddb8b86b82b72838cbfe8	no	2

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73(b).	MOBI-0004P1C2C_POA_05-18-2011.pdf	428117 1ebde60c51d09fdc6ba51958956c980f82600c52	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1513457		
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

Applicant : Ahern, F. et al. Confirmation : 6489
Serial No. : 12/644,511 Examiner : Huynh, K.
Filed : December 22, 2009 Group Art Unit : 2111
For : A COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

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

AFTER-FINAL RESPONSE TO OFFICE ACTION

Dear Madam:

In response to the Office Action mailed November 19, 2010, and Advisory Action mailed April 7, 2011, please consider the following remarks.

<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	04/25/2011															
	1	✓	✓	-															
	2	✓	✓	-															
	3	✓	✓	-															
	4	✓	✓	-															
	5	✓	✓	-															
1	6	✓	✓	=															
	7	✓	✓	-															
2	8	✓	✓	=															
3	9	✓	✓	=															
4	10	✓	✓	=															
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7	13	✓	✓	=															
8	14	✓	✓	=															
9	15	✓	✓	=															
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11	17	✓	✓	=															
12	18	✓	✓	=															
13	19	✓	✓	=															
14	20	✓	✓	=															
15	21		✓	=															
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	30		✓	-															
	31		✓	-															
	32		✓	-															
	33		✓	-															
21	34		✓	=															
22	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	04/25/2011																																			
	37																																						
	38																																						
	39																																						
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	25																																						

Issue Classification 	Application/Control No. 12644511	Applicant(s)/Patent Under Reexamination AHERN ET AL.
	Examiner KIM T HUYNH	Art Unit 2111

ORIGINAL						INTERNATIONAL CLASSIFICATION													
CLASS		SUBCLASS				CLAIMED					NON-CLAIMED								
710		100				G	0	6	F	13 / 00 (2006.01.01)									
CROSS REFERENCE(S)																			
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)																		
710	305	306																	

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1	11	17		33										
	2	12	18	21	34										
	3	13	19	22	35										
	4	14	20												
	5	15	21												
1	6	16	22												
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3	9	19	25												
4	10	20	26												
5	11		27												
6	12		28												
7	13		29												
8	14		30												
9	15		31												
10	16		32												

/KIM T HUYNH/ Examiner, Art Unit 2111 (Assistant Examiner)	4/24/2011 (Date)	Total Claims Allowed: 22	
/Mark Rinehart/ Supervisory Patent Examiner, Art Unit 2111 (Primary Examiner)	 (Date)	O.G. Print Claim(s) 6	O.G. Print Figure 4

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
updated prior search	4/24/2011	kh

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
710	305-306	4/25/2011	kh

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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

NOTICE OF ALLOWANCE AND FEE(S) DUE

45590 7590 05/17/2011
Patent Prosecution Dept.
MURABITO, HAO & BARNES LLP
TWO NORTH MARKET STREET
THIRD FLOOR
SAN JOSE, CA 95113

EXAMINER

HUYNH, KIM T

ART UNIT

PAPER NUMBER

2111

DATE MAILED: 05/17/2011

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

TITLE OF INVENTION: COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/17/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

45590 7590 05/17/2011
Patent Prosecution Dept.
MURABITO, HAO & BARNES LLP
TWO NORTH MARKET STREET
THIRD FLOOR
SAN JOSE, CA 95113

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

12/644,511

12/22/2009

Frank W. Ahern

TALS0090

6489

TITLE OF INVENTION: COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/17/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
HUYNH, KIM T	2111	710-100000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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.



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.
12/644,511	12/22/2009	Frank W. Ahern	TALS0090	6489

45590 7590 05/17/2011
Patent Prosecution Dept.
MURABITO, HAO & BARNES LLP
TWO NORTH MARKET STREET
THIRD FLOOR
SAN JOSE, CA 95113

EXAMINER

HUYNH, KIM T

ART UNIT	PAPER NUMBER
----------	--------------

2111

DATE MAILED: 05/17/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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.

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

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 4/19/2011.
2. ☒ The allowed claim(s) is/are 6, 8-26, 34-35.
3. ☐ 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 the:
 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)).
 - * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>3/21/2011,4/23/2010,10/21/2010,,12/22/2009</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____. 7. ☐ Examiner's Amendment/Comment 8. ☐ Examiner's Statement of Reasons for Allowance 9. ☐ Other ____. |
|--|---|

/Mark Rinehart/
 Supervisory Patent Examiner, Art Unit 2111

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: right; font-size: small;">Complete if Known</th> </tr> <tr> <td style="width: 40%;">Application Number</td> <td>Unknown 12/644511</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>Unknown 2111</td> </tr> <tr> <td>Examiner Name</td> <td>Unknown Kim Huynh</td> </tr> </table>			Complete if Known		Application Number	Unknown 12/644511	Filing Date	December 22, 2009	First Named Inventor	Ahern, Frank	Art Unit	Unknown 2111	Examiner Name	Unknown Kim Huynh
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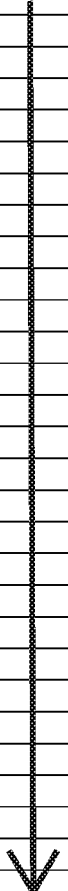
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/KH/		SHANLEY, et al., "PCI System Architecture", <u>PC System Architecture Series, November 1995</u> , The information on the pages are from revision 1.0 PCI to PCI Bridge Architecture specification dated April 5, 1994,(11/1995),381-387	
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INFORMATION 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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/KH/	1	"IEEE Standard for a High Performance Serial Bus;" 392 pages; The Institute of Electrical And Electronics Engineers, Inc., 1996.	☐
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SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
12/644,511	12/22/2009	710	2111	TALS0090		
RULE						
APPLICANTS Frank W. Ahern, Payson, AZ; Desi Rhoden, Phoenix, AZ; Jeff Doss, Scottsdale, AZ; Charles Mollo, Phoenix, AZ;						
** CONTINUING DATA ***** This application is a CON of 11/300,131 12/13/2005 PAT 7,657,678 which is a CON of 09/559,678 04/27/2000 PAT 7,734,852 which claims benefit of 60/198,317 04/19/2000 and is a CIP of 09/130,057 08/06/1998 PAT 6,088,752 and is a CIP of 09/130,058 08/06/1998 PAT 6,070,214 ack /kh/ 4/24/2011						
** FOREIGN APPLICATIONS ***** none /kh/ 4/24/2011						
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NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/19/2011.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/mnnguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/644,511	12/22/2009	Frank W. Ahern	TALS0090

CONFIRMATION NO. 6489

POWER OF ATTORNEY NOTICE



OC000000047360037

75671
Sadler, Breen, Morasch & Colby, ps
601 W. Main Ave.
Suite 1300
Spokane, WA 99201

Date Mailed: 04/28/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/19/2011.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/mnguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ahern, F. et al. Confirmation : 6489
Serial No. : 12/644,511 Examiner : Huynh, K.
Filed : December 22, 2009 Group Art Unit : 2111
For : A COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

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

AFTER-FINAL RESPONSE TO OFFICE ACTION

Dear Madam:

In response to the Office Action mailed November 19, 2010, and Advisory Action mailed April 7, 2011, please consider the following remarks.

LISTING OF THE CLAIMS

A detailed listing of claims is presented below.

1-5. (Cancelled)

6. (Previously Presented) A method comprising:

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.

7. (Cancelled)

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. (Previously Presented) 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, or a storage module.

13. (Previously Presented) 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.

14. (Previously Presented) The method as recited in claim 13, wherein the asynchronously, serially transferring the first serial data comprises asynchronously, serially transferring the first serial 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. (Previously Presented) 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, 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. (Previously Presented) 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. (Previously Presented) The computing module as recited in claim 21, wherein the first interface comprises a bridge.

23. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) 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.

27-33. (Cancelled) .

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 6, 8-26, 34, and 35 remain pending in the present Application.

Informal Communications with Examiner

Applicants wish to thank the Examiner for participating in a telephone conference on April 15, 2011. Rejections outlined in the Final Office Action dated 19 November 2010, and maintained in an Advisory Action mailed 7 April 2011 were discussed.

Applicants wish to thank the Examiner for discussing the allowability of independent Claims 6, 13, and 21, as well as their dependencies. In short, an agreement was reached to cancel independent Claims 1 and 27, as well as their dependencies, thereby making moot any Section 102 or Section 103 rejections of those claims. Further, it was agreed that with a properly filed terminal disclaimer, the non-statutory double patenting rejection brought against remaining Claims 6, 8-26, 34, and 35 would be overcome, and as such those claims would be in a position for allowance.

Double Patenting and Allowable Claims

Claims 6, 8-26, 34, and 35 are rejected under a non-statutory double patenting rejection over Claims 1-38 of the parent application 11/300,131. No further rejections were brought against the aforementioned claims.

Applicants wish to thank the Examiner for the allowance of Claims 6, 8-26, 34, and 35, subject to a properly filed terminal disclaimer. Concurrent with this After-Final

Response, Applicants are filing a terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) to overcome the non-statutory double patenting rejection of the aforementioned claims over Claims 1-38 of parent application 11/300,131, and disclaims the terminal part of the statutory term of any patent granted on the instant application extending beyond the term of the parent application 11/300,131, now issued as Patent No. 7,657,678. As such, Applicants request immediate issuance of Claims 6, 8-26, 34, and 35.

CONCLUSION

The Examiner is urged to contact Applicants' 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: 19 April 2011

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

Two North Market Street
Third Floor
San Jose, California 95113
(408) 938-9060

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ahern, F. et al. Confirmation : 6489
Serial No. : 12/644,511 Examiner : Huynh, K.
Filed : December 22, 2009 Group Art Unit : 2111
For : A COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

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AFTER-FINAL RESPONSE TO OFFICE ACTION

Dear Madam:

In response to the Office Action mailed November 19, 2010, and Advisory Action mailed April 7, 2011, please consider the following remarks.

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.

**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING
REJECTION OVER A "PRIOR" PATENT**Docket Number (Optional)
MOBI-0004P1C2C

In re Application of: Frank W. Ahern

Application No.: 12/644,511

Filed: December 22, 2009

For: A COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

The owner*, TAO LOGIC SYSTEMS LLC, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term **prior patent** No. 7,657,678 as the term of said prior patent is defined in 35 U.S.C. 154 and 173, and as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 46,315

//Lin C. Hsu//

Signature

19 April 2011

Date

Lin C. Hsu

Typed or printed name

408.938.9060

Telephone Number

- ☒ Terminal disclaimer fee under 37 CFR 1.20(d) included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. 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 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.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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.

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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

45590

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

45590

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone		Email	

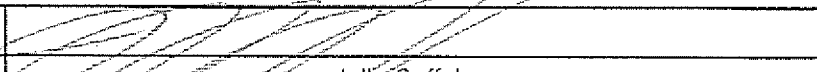
Assignee Name and Address:

Tao Logic Systems LLC
3225 McLead Dr., Suite 100
Las Vegas, NV 89121

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

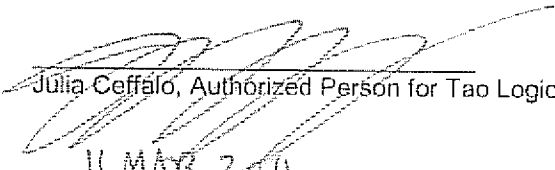
Signature		Date	11 MAR 2011
Name	Julia Ceffalo	Telephone	
Title	Authorized Person for Tao Logic Systems LLC		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. 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 3 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.

DECLARATION REGARDING AUTHORITY TO SIGN ON BEHALF OF A LEGAL ENTITY
(37 C.F.R. 3.73(b)(2)(i))

I, Julia Ceffalo (whose title is supplied below), hereby declare that I am authorized to sign on behalf of Tao Logic Systems LLC.



Julia Ceffalo, Authorized Person for Tao Logic Systems LLC

11 MAY 2011

[date]

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.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Tao Logic Systems LLC

Application No./Patent No.: 12/644,511

Filed/Issue Date: December 22, 2009

Titled: A COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

TAO LOGIC SYSTEMS

, a Limited Liability Company

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Frank Ahern et al. To: Mobility Electronics

The document was recorded in the United States Patent and Trademark Office at
Reel 010974, Frame 0126, or for which a copy thereof is attached.

2. From: Mobility Electronics To: Tao Logic Systems LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 016674, Frame 0720, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

//Lin C. Hsu//

19 April 2011

Signature

Date

Lin C. Hsu

Attorney of Record

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). 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 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.**

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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:				
Extension - 2 months with \$130 paid	1252	1	360	360

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Statutory or terminal disclaimer	1814	1	140	140
Total in USD (\$)				500

Electronic Acknowledgement Receipt

EFS ID:	9914182
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:	19-APR-2011
Filing Date:	22-DEC-2009
Time Stamp:	18:51:05
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	\$ 500
RAM confirmation Number	5538
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1		01_MOBI-0004P1C2C_after_final_response.pdf	64544 72f82ffc22ce826389c27cfab5b765da9f88e73d	yes	7
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment After Final		1	1	
	Claims		2	5	
	Applicant Arguments/Remarks Made in an Amendment		6	7	
Warnings:					
Information:					
2	Terminal Disclaimer Filed	02_MOBI-0004P1C2C_Terminal_Disclaimer_sb0026.pdf	210320 6ad21c50d4abc47ef26aeb51f96295d51aa0e21a	no	2
Warnings:					
Information:					
3	Power of Attorney	03_MOBI-0004P1C2C_POA.pdf	73653 b64876a247010041c2e69739e5904983143e06cf	no	2
Warnings:					
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing					
Information:					
4	Assignee showing of ownership per 37 CFR 3.73(b).	04_MOBI-0004P1C2C_ownership_sb0096.pdf	427211 05db2dc818c9ab2fdab7d9b7e54897ffdc63c331	no	2
Warnings:					
Information:					
5	Fee Worksheet (PTO-875)	fee-info.pdf	31633 7cec6259b7976bea960318f062ff76b050db4596	no	2
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Total Files Size (in bytes):			807361		

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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.

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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 (\$)		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))										
			TOTAL			TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	04/19/2011	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 21	Minus	** 33	= 0	X \$	=		X \$52=	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***5	= 0	X \$	=		X \$220=	0
	☐ 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	0
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$	=		X \$	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$	=		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:
/CHARLENE HERBERT/

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ahern, F. Confirmation : 6489
Serial No. : 12/644,511 Examiner : Huynh, K.
Filed : December 22, 2009 Group Art Unit : 2111
For : A COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

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

RESPONSE TO OFFICE ACTION

Dear Madam:

In response to the Office Action mailed November 19, 2010, please consider the following remarks.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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	04/07/2011		
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 04/07/2011	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

Advisory Action Before the Filing of an Appeal Brief	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 --

THE REPLY FILED 3 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.
 b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
 (a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
 (b) ☐ They raise the issue of new matter (see NOTE below);
 (c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 (d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
 5. ☐ Applicant's reply has overcome the following rejection(s): _____.
 6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
 7. ☐ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
 The status of the claim(s) is (or will be) as follows:
 Claim(s) allowed: _____.
 Claim(s) objected to: _____.
 Claim(s) rejected: _____.
 Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
 9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
 10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
The prior art does teach asynchronously, serially exchange of serial data, corresponding to the parallel data, with one or module without requiring handshaking. As Abramson notes at (col.3, line 34-col.4, line 45, further cited for clarification), the south bridge 140 bridges transaction from the PCI bus and a serial bus 1394, the arbitration module is coupled to asynchronous transmit between modules, by way of address, data and control signal lines. This is equivalent to Applicant's recited claims. Thus, the prior art teaches the invention as claimed and the claims do not distinguish over the prior art as applied.
 12. ☒ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). 3/21/2011
 13. ☐ Other: _____.

/Mark Rinehart/
Supervisory Patent Examiner, Art Unit 2111

U.S. Patent and Trademark Office
PTOL-303 (Rev. 08-06)

Advisory Action Before the Filing of an Appeal Brief

Part of Paper No. 20110328

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

/KH/	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	/Kim Huynh/ (03/30/2011)	Date Considered	03/30/2011
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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ahern, F. Confirmation : 6489
Serial No. : 12/644,511 Examiner : Huynh, K.
Filed : December 22, 2009 Group Art Unit : 2111
For : A COMPUTING MODULE WITH SERIAL DATA CONNECTIVITY

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

RESPONSE TO OFFICE ACTION

Dear Madam:

In response to the Office Action mailed November 19, 2010, please consider the following remarks.

LISTING OF THE CLAIMS

A detailed listing of claims is presented below.

1. (Previously Presented) 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.
2. (Previously Presented) The apparatus as recited in claim 1, wherein the
interface comprises a bridge.
3. (Cancelled)
4. (Previously Presented) The apparatus as recited in claim 1, wherein the
computing first module is separated from each of the one or more modules by a distance
of at least a meter.
5. (Previously Presented) The apparatus as recited in claim 1, wherein the one
or more modules include 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.
6. (Previously Presented) A method comprising:
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.

7. (Cancelled)

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. (Previously Presented) 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, or a storage module.

13. (Previously Presented) 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.

14. (Previously Presented) The method as recited in claim 13, wherein the asynchronously, serially transferring the first serial data comprises asynchronously, serially transferring the first serial 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. (Previously Presented) 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, 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. (Previously Presented) 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. (Previously Presented) The computing module as recited in claim 21, wherein the first interface comprises a bridge.

23. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) The computing module as recited in claim 27, wherein:
the interface includes a configuration to serially exchange the serial data without requiring handshaking.

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