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13/052,516	03/21/2011	Nitin Gupta	101459	6620
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5775 MOREHOUSE DR. SAN DIEGO, CA 92121		ELAMIN, ABDELMONIEM I		
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			2116	
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## Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No. 13/052,516		Applicant(s) GUPTA ET AL.	
Office Action Summary	Examiner ABDELMONIEM ELAMIN	Art Unit 2116	AIA (First Inventor to File) Status No	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	e correspondenc	ce address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATI 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fr e, cause the application to become ABANDO	ON.  timely filed  om the mailing date of NED (35 U.S.C. § 133	this communication.	
Status				
1) Responsive to communication(s) filed on 21 M  A declaration(s)/affidavit(s) under 37 CFR 1.				
		<u>-</u>		
2a) This action is <b>FINAL</b> . 2b) ☐ This 3) An election was made by the applicant in resp	s action is non-final.	nt set forth durin	ng the interview on	
; the restriction requirement and election			ig the interview on	
4) Since this application is in condition for allowa			o the merits is	
closed in accordance with the practice under				
Disposition of Claims	,,			
5) Claim(s) 1-24 is/are pending in the application 5a) Of the above claim(s) is/are withdra 6) Claim(s) is/are allowed. 7) Claim(s) 1-24 is/are rejected. 8) Claim(s) is/are objected to. 9) Claim(s) are subject to restriction and/o * If any claims have been determined allowable, you may be exparticipating intellectual property office for the corresponding and the participating intellectual property office for the corresponding and the participation in the corresponding and the corr	awn from consideration.  or election requirement.  eligible to benefit from the <b>Patent P</b> application. For more information, p  d an inquiry to <u>PPHfeedback@uspt</u> er.  cepted or b) objected to by the  drawing(s) be held in abeyance.	e Examiner. See 37 CFR 1.85(	(a).	
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign Certified copies:  a) All b) Some * c) None of the:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list of the certified copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list of the certified copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list of the certified copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list of the certified copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list of the certified copies of the certifi	nts have been received. Ints have been received in Applic Ority documents have been rece Uu (PCT Rule 17.2(a)).	cation No		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Minformation Disclosure Statement(s) (PTO/SB/08)	3) ☐ Interview Summ: Paper No(s)/Mai			



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#### DETAILED ACTION

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### Claim Rejections - 35 USC § 102

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

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 2. Claims 1-24 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Svensson, International Publication No. WO 2006/077068 A2 (cited by Applicant).
- 3. Claims 1, 3, 7-8, 19, 21, Svensson teaches a secondary processor [client processor 104] comprising system memory [DSPXRAM 110] and a hardware buffer [An intermediate storage area is defined within the memory 108] for receiving at a least a portion of an executable software

image [this reserved block of memory is used for intermediate storage of information (code and/or data) to be transferred to the slave- private memory, see page 7, lines 5-8. On receipt of the slave's information, the second stage of the host boot loader fills the intermediate storage area with information (code and/or data) to be loaded into the slave's invisible memory (Step 216) page7, lines25-27], the secondary processor comprising a scatter loader controller for loading the executable software image directly from the hardware buffer to the system memory [The slave copies the contents of the intermediate storage area to appropriate locations in its slave-private memory (Step 220), thereby implementing its actual loading, see page 7, last line -page 8, line 2];

a primary processor [host processor102] coupled with a memory [non-volatile memory 106], the memory storing the executable software image for the secondary processor [This



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5, lines 23-26]; and

can be inferred from The first stage resets and holds the slave 104 in the reset state (Step 202) and pushes information (program instructions and/or data) (Step 204) in the usual way from the non-volatile memory 106 into the commonly visible memories 108, see page

an interface communicatively coupling the primary processor and the secondary processor via which the executable software image is received by the secondary processor [The arrows in FIG. 1 indicate access paths, e.g., busses and DMA paths, between the CPUs and the memories. The ARM host CPU 102 can access the non-volatile memory 106 and the SARAM and DARAM 108 of the DSP, but not the DSP's XRAM 110, and the DSP slave CPU 104 can access all of the RAMs 108, 110, see page 5, lines 8-12].

- 4. Claim 2, Svensson teaches the scatter loader controller is configured to load the executable software image directly from the hardware buffer to the system memory of the secondary processor without copying data between system memory locations on the secondary processor [there is no indication that data is copied between system memory locations on the secondary processor when loading the executable software image from the hardware buffer to the system memory of the secondary processor].
- 5. Claims 4-6, Svensson teaches the executable software image comprises an image header and at least one data segment [Fig. 3, it is clear that the executable software image comprises an image header and at least one segment].
- 6. Claim 9, Svensson teaches the portion of the executable software image is loaded into the system memory of the secondm<sub>5</sub>, processor without an entire executable software image being stored in the hardware buffer [*This also means that a block should be split if it is larger than the*



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remaining part of the intermediate storage area, and one part transferred to the intermediate storage area with the remaining part transferred in the next block. Moreover, if a block is several times larger than the intermediate storage area, it may have to be split more than once, see page 8, line 27]

- 7. Claims 10, 20, 22, Svensson teaches the multi-processor system is integrated into a computer [This invention relates to initialization of electronic systems having multiple programmable processors, see page 1, line 4].
- 8. Claims 11, 14-15, 17, 23, Svensson teaches receiving at a secondary processor [client processor 104], from a primary processor [host processor 102] via an inter-chip communication bus [The arrows in FIG. 1 indicate access paths, e.g., busses and DMA paths, between the CPUs and the memories. The ARM host CPU 102 can access the non-volatile memory 106 and the SARAM and DARAM 108 of the DSP, but not the DSP's XRAM 110, and the DSP slave CPU 104 can access all of the RAMs 108, 110, see page 5, lines 8-12], an image header for an executable software image for the secondary processor that is stored in memory coupled to the primary processor, the executable software image comprising the image header and at least one data segment [A block of code and/or data to be transferred into the intermediate storage area includes a header];

processing, by the secondary processor, the image header to determine at least one location within system memory to which the secondary processor is coupled to store the at least one data segment [that indicates the length of the block and where it is to be loaded in the slave memory, i.e., the destination address, see page 8, lines 15-18];



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