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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/052,516	03/21/2011	Nitin Gupta	101459	6620
23696 7590 07/19/2013 QUALCOMM INCORPORATED			EXAMINER	
5775 MOREHO	DUSE DR.		ELAMIN, ABDELMONIEM I	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2116	
			NOTIFICATION DATE	DELIVERY MODE
			07/19/2013	ELECTRONIC

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

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Office Action Summary     The MAILING DATE of this communication a Period for Reply      A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING     Extensions of time may be available under the provisions of 37 CFR     after SIX (6) MONTHS from the mailing date of this communication.     If NO period for reply is specified above, the maximum statutory peri     Failure to reply within the set or extended period for reply will, by sta	PLY IS SET TO EXPIRE <u>3</u> MON DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply l iod will apply and will expire SIX (6) MONTHS	TH(S) OR THIR	AIA (First Inventor to File) Status No ce address
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Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).		from the mailing date o ONED (35 U.S.C. § 13	f this communication.
Status	1 Marah 2011		
<ol> <li>1)</li></ol>			
	his action is non-final.	_	
3) An election was made by the applicant in re		ent set forth duri	ng the interview on
; the restriction requirement and elect	tion have been incorporated into	this action.	
4) Since this application is in condition for allow closed in accordance with the practice under	•	•	to the merits is
Disposition of Claims	<i>Ex parto Gaugio</i> , 1000 0.D. 11	, 400 0.0. 210.	
5) Claim(s) <u>1-24</u> is/are pending in the applicati	ion		
5a) Of the above claim(s) is/are witho			
6) Claim(s) is/are allowed.			
7) Claim(s) <u>1-24</u> is/are rejected.			
8) Claim(s) is/are objected to.			
9) Claim(s) are subject to restriction and	d/or election requirement.		
* If any claims have been determined <u>allowable</u> , you may be	e eligible to benefit from the Patent	Prosecution High	way program at a
participating intellectual property office for the corresponding	g application. For more information,	please see	
http://www.uspto.gov/patents/init_events/pph/index.jsp or se	end an inquiry to <u>PPHfeedback@us</u>	oto.gov.	
Application Papers			
10) The specification is objected to by the Exam	liner.		
11) The drawing(s) filed on is/are: a) a	accepted or b) 🗌 objected to by t	he Examiner.	
Applicant may not request that any objection to t	the drawing(s) be held in abeyance.	See 37 CFR 1.85	(a).
Replacement drawing sheet(s) including the corr	rection is required if the drawing(s) is	s objected to. See	37 CFR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
Certified copies:			
a)  All b)  Some * c)  None of the:			
1. Certified copies of the priority docum	ients have been received.		
2. Certified copies of the priority docum	ents have been received in Appl	ication No	
3. Copies of the certified copies of the p	oriority documents have been red	ceived in this Na	tional Stage
application from the International Bur	eau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a lis	st of the certified copies not received		
Attachment(s)			
1) X Notice of References Cited (PTO-892)	3) 🔲 Interview Sumr	nary (PTO-413)	
2) X Information Disclosure Statement(s) (PTO/SB/08)		ail Date	
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#### **DETAILED ACTION**

#### 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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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 5, lines 23-26]; and

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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