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[Continued on next page]

- (54) **Title:** WIRELESS INTERFACE SHARING

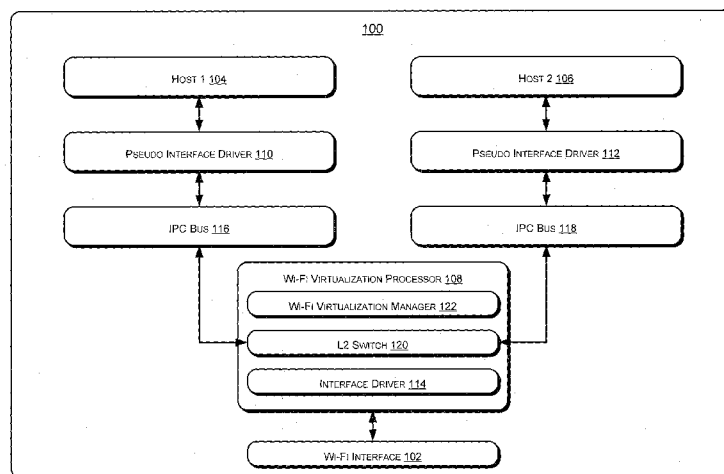


Figure 1

- (57) **Abstract:** Described herein are methods and system for sharing a wireless interface (102) among various multiple host processors in a multi-processor computing system (100) to provide simultaneous access of a wireless network to the host processors. In one implementation the multi-host computing system (100), comprises a wireless interface (102) configured to connect to at least one of a plurality of wireless networks; and a wireless network access virtualization (WNAV) processor (108) communicatively coupled to the wireless interface (102), wherein the WNAV processor (108) is configured to multiplex data packets received from the plurality of hosts, transmit the multiplexed data packets to at least one of the plurality of wireless networks through the wireless interface (102), receive data packets from one of the plurality of wireless network through the wireless interface (102) and route the data packets to each of the plurality of hosts based on a media access control (MAC) address associated with each of the plurality of hosts.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

See the extra sheet

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: H04L, H04W, G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNABS,CNTEXT,CNKI,VEN: multi+, core?, CPU?, processor?, host?, network, interface, wireless, NIC, MAC, shar+

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US7464174B1 (PERICOM SEMICONDUCTOR CORP.), 09 Dec. 2008 (09.12.2008), the abstract, the description column 4 lines 15-45, column 5 line 5 to column 6 line 62 , column 10 line 21, figures 6-7	1-20
X	US2003200315A1 (MELLANOX TECHNOLOGIES LTD), 23 Oct. 2003 (23.10.2003) the description paragraphs 0012-0016	1-20
A	CN101146280A (ZTE CORP.) , 19 Mar. 2008 (19.03.2008), the whole document	1-20
A	CN1627728A (INT BUSINESS MACHINES CORP.), 15 Jun. 2005 (15.06.2005) the whole document	1-20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 30 Sept. 2012 (30.09.2012)	Date of mailing of the international search report 08 Nov. 2012 (08.11.2012)
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer LIU, Yan Telephone No. (86-10)62412013

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
US7464174B1	09.12.2008	None	
US2003200315A1	23.10.2003	US7245627B2	17.07.2007
CN101146280A	19.03.2008	CN100568992C	09.12.2009
CN1627728A	15.06.2005	CN100448221C	31.12.2008
		US2005129040A1	16.06.2005
		US7660322B2	09.02.2010

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International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

H04W 92/10 (2009.01) i

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