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[Continued on next page]

(54) Title: REDUNDANT LINKS FOR RELIABLE COMMUNICATION

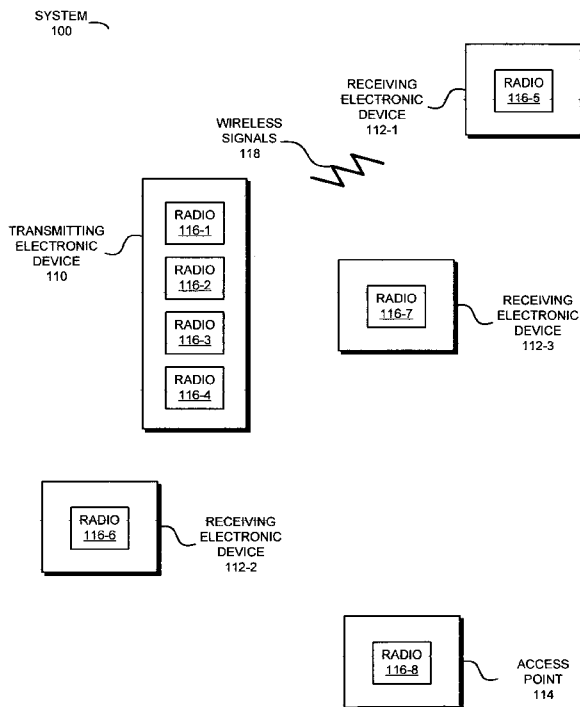


FIG. 1

(57) Abstract: In order to maintain performance during wireless communication, a transmitting electronic device may concurrently and independently communicate redundant information to a receiving electronic device. In particular, information associated with a data stream may be communicated to the receiving electronic device using one or more channels by two radios using one or more wireless local area network communication protocols. The packets transmitted by the radios may preferentially include the same information. Moreover, the transmitting electronic device may attempt to maintain the redundant communication if a performance metric associated with the one or more channels degrades. For example, the transmitting electronic device may transfer communication to a different channel or may compress the information in the packets in the one or more channels if the throughput drops below a threshold value. Furthermore, the concurrent communication may allow the transmitting electronic device determine link quality without disrupting the communication of the information.





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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - H04W 4/00 (2016.01) CPC - H04W 80/04, H04W 88/06, H04W 88/08 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC(8): H04W 4/00 (2016.01) CPC: H04W 80/04, H04W 88/06, H04W 88/08		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 370/328 (keyword limited - see terms below)		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PatBase; GOOGLE; GoogleScholar; GooglePatents Search Terms: transmit, input port, antenna, packet, WLAN, channel, data stream, second channel, interface, wireless network, receive, 802.11, performance metric, packet, protocol, threshold, gain, error, correct, link, calibrate		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2005/0135517 A1 (Coffey et al.) 23 June 2005 (23.06.2005), entire document, especially; abstract, para. [0006]-[0008], [0021], [0026], [0027], [0037], [0047], [0050], [0051], Fig. 8	1 - 20
Y	US 2004/0032853 A1 (D'Amico et al.) 19 February 2004 (19.02.2004), entire document, especially; abstract, para. [0006], [0015], [0017], [0053], [0060], Claim - 6	1 - 20
A	US 2010/0246480 A1 (Aggarwal et al.) 30 September 2010 (30.09.2010), entire document	1 - 20
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-8300		Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774