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(54) Title: DEVICES, SYSTEMS, AND METHODS FOR MANAGING MULTIMEDIA TRAFFIC ACROSS A COMMON WIRELESS COMMUNICATION NETWORK

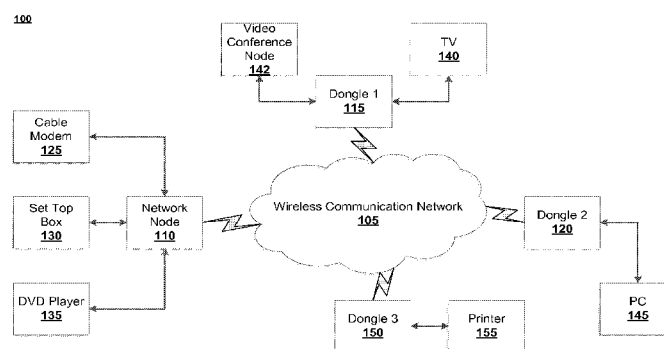


Figure 1

(57) **Abstract:** Systems, devices, and methods are disclosed for managing multimedia traffic across a common wireless communication network. Embodiments may include content devices, end point devices, a network node, and a wireless dongle. The network node and the wireless dongle may have application functions transmitting and receiving application data streams including a video application. The video application may include a conversion engine to compress, expand, or convert video data. Further, both the network node and the wireless dongle may transmit downstream video streams and receive upstream video streams. In addition, the network node may have a master controller function and a node management function, and a dongle management function each managing video traffic streams and application data streams. In addition, the dongle management function controls admission of a video traffic stream originating from the wireless dongle to the wireless communication network.

A. CLASSIFICATION OF SUBJECT MATTER***H04W 92/02(2009.01)i, H04W 28/02(2009.01)i, H04W 28/24(2009.01)i, H04W 12/08(2009.01)i, H04W 4/18(2009.01)i***

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)

H04W 92/02; H04N 21/414; H04N 3/27; H04H 40/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: traffic, multimedia, management, dongle

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0040031 A1 (RAVEENDRAN, VIJAYALAKSHMI R.) 18 February 2010 See abstract; paragraphs [0007]-[0010],[0082]-[0090]; claims 14,22,23 and figures 3,4.	1-84
A	US 2010-0295994 A1 (KAPLAN, JONATHAN et al.) 25 November 2010 See abstract; paragraphs [0005]-[0008],[0016],[0017],[0021],[0058]; claims 1,10,14 and figures 1,2.	1-84
A	KR 10-2009-0130806 A (HFR, INC.) 24 December 2009 See abstract; paragraphs [0005]-[0007],[0013]-[0027]; claim 1 and figure 1. * Note: For claim 82, the claim was renumbered from the second claim 81 by this authority because claim 81 is found twice and claim 82 is missing in this application.	1-84



Further documents are listed in the continuation of Box C.



See patent family annex.

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