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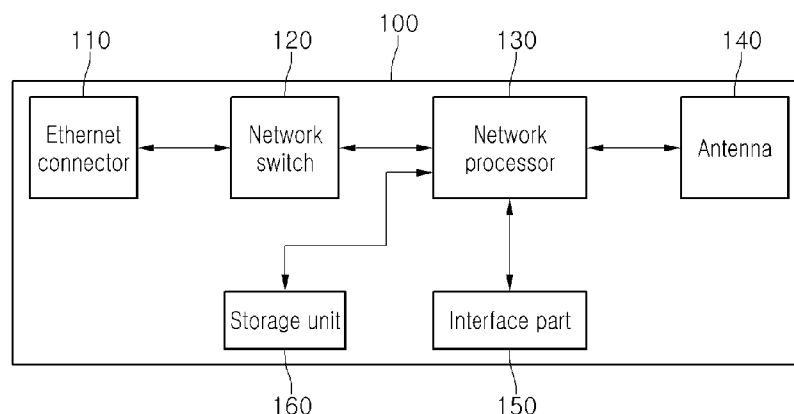
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(54) **Title:** GATEWAY MODULE

[Fig. 3]



(57) **Abstract:** A gateway module according to the disclosure includes an Ethernet connector for receiving a broadcasting signal and a network signal through a coaxial cable to separate to the broadcasting signal from the network signal, a network switch for selecting at least one from a plurality of internal communication networks to transmit the separated network signal to the selected communication network, and an interface part for receiving and transmitting the separated network signal to a TV, in which the gateway module is mounted on one surface of the TV.



A. CLASSIFICATION OF SUBJECT MATTER**H04L 29/06(2006.01)i, H04N 5/44(2011.01)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)

H04L 29/06; H04N 7/10; H04N 7/173; H04N 21/40; H04L 12/28

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: ethernet, broadcasting signal, network signal, cable, switch, interface, RF, MII, UART

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-2004-0070509 A (LG Electronics CO., LTD) 11 August 2004 See figure 2; claim 1; paragraphs [17]-[26]	1-11
Y	KR 10-2006-0070239 A (ETRI) 23 June 2006 See figure 2; paragraphs [61], [63], [66], [69]	1-11
A	KR 10-2008-0016250 A (LG-NORTEL CO., LTD) 21 February 2008 See figure 2, 3; paragraphs [20]-[28]	1-11
A	Intark Han et al., "An Integrated Home Server for Communication, Broadcast Reception, and Home Automation," IEEE Transactions on Consumer Electronics, Vol. 52, No. 1, PP. 104-109, FEBRUARY 2006 See Section 3, 5	1-11
A	US 6305020 B1 (HOARTY; W. L. et al.) 16 October 2001 See figure 1, 2; claims 1-3	1-11

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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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