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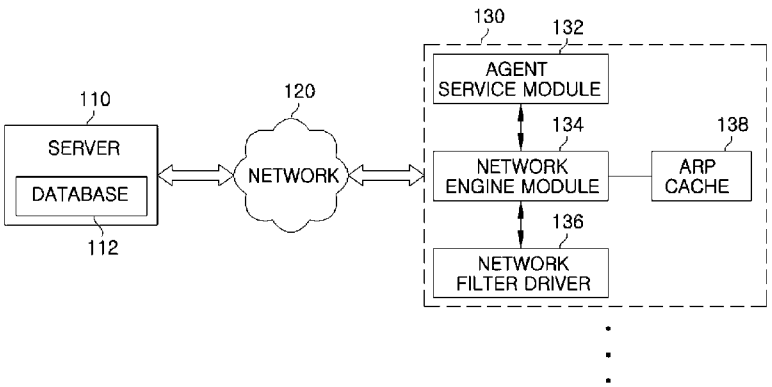
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(54) Title: METHOD OF DETECTING ARP SPOOFING ATTACKS USING ARP LOCKING AND COMPUTER-READABLE RECORDING MEDIUM STORING PROGRAM FOR EXECUTING THE METHOD

[Fig. 1]



(57) Abstract: A method of detecting Address Resolution Protocol (ARP) spoofing attack, includes initializing an ARP cache if an IP address of the ARP cache is consistent with any one of the IP addresses of the candidate senders and a MAC address of the ARP cache is not consistent with a MAC address of a candidate sender of which IP address is consistent with that of the ARP cache. The method further includes blocking an inbound packet having an ARP response if an IP address of a sender sending the ARP response is consistent with any one of the IP addresses of the candidate senders and a MAC address of the sender is not consistent with a MAC address of the candidate sender of which IP address is consistent with that of the sender sending the ARP response.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04L 12/22; G06F 15/16; H04Q 7/00; G06F 21/00; G08B 23/00

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:ARP,SPOOFING,UPDATE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 2010-0107250 A1 (LI ZHENHAI) 29 April 2010 See abstract; claims 1-4,6	10,20 1,2,6,7,11,14,17,20 3-5,8,9,12,13,15,16,18,19
Y A	US 7464183 B1 (IOFFE MAKSIM et al.) 09 December 2008 See abstract; claims 1,4.6	1,2,6,7,11,14,17,20 3-5,8,9,12,13,15,16,18,19
A	US 2004-0213172 A1 (ROBERT, L. MYERS et al.) 28 October 2004 See abstract; claims 1,2,7-10	1-20
A	US 7234163 B1 (AMMAR RAYES et al.) 19 June 2007 See claims 1,8,10-13	1-20

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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