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(54) Title: METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR SCREENING DIAMETER MESSAGES WITHIN A DIAMETER SIGNALING ROUTER (DSR) HAVING A DISTRIBUTED MESSAGE PROCESSOR ARCHITECTURE

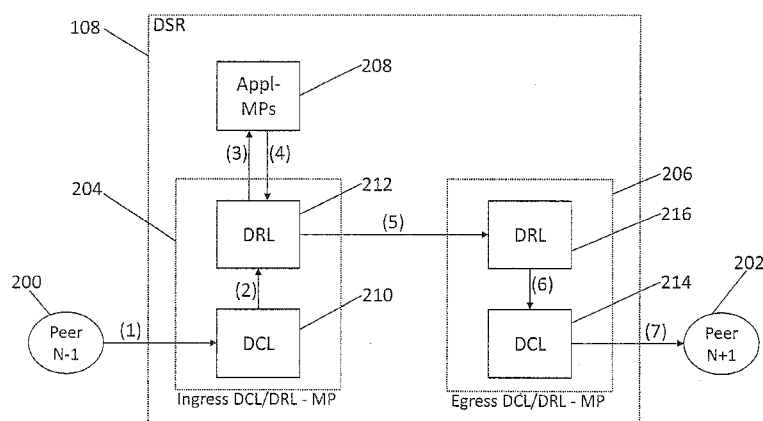


FIG. 2

(57) Abstract: According to one aspect, the subject matter described herein includes a method for screening Diameter messages within a Diameter signaling router (DSR) having a distributed message processor architecture. The method includes steps occurring at a DSR comprising a plurality of Diameter message processors, each configured to perform at least one Diameter function. The steps include receiving, at an ingress Diameter message processor of the Diameter message processors, a Diameter message from a Diameter peer node. The steps also include identifying, at a Diameter application message processor of the Diameter message processors, a Diameter message screening rule associated with the received Diameter message. The steps further include performing, at the Diameter application message processor of the Diameter message processors, a screening function associated with the identified Diameter message screening rule on the received Diameter message.



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A. CLASSIFICATION OF SUBJECT MATTER***H04L 12/28(2006.01)i, H04L 12/58(2006.01)i, H04L 29/06(2006.01)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 12/28; H04B 7/00; H04L 12/66; H04M 11/00; G10L 21/00

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: Diameter, DSR, screening, blocking, filtering, processor, message, network, and similar terms.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011-0014939 A1 (V. RAVISHANKAR et al.) 20 January 2011 See abstract; figures 1, 9, 10, 11, 15; paragraphs [0040], [0042], [0050], [0053], [0072], [0075]; claims 1-4, 10-15, 22.	1-3, 7-9, 12-15, 19-21, 24, 25
A		4-6, 10, 11, 16-18, 22, 23
A	US 2008-0160954 A1 (D. AGARWAL et al.) 03 July 2008 See abstract; figures 1-6; paragraphs [0018]-[0020]; claim 1.	1-25
A	US 2009-0080410 A1 (H. AOYAGI et al.) 26 March 2009 See abstract; figures 1, 4, 6; paragraphs [0024], [0072].	1-25



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"&" document member of the same patent family

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2011-0014939 A1	20.01.2011	None	
US 2008-0160954 A1	03.07.2008	CN 101658020 A EP 2116021 A1 WO 2008-085432 A1	24.02.2010 11.11.2009 17.07.2008
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