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(54) **Title:** GUARANTEED QUALITY MULTIMEDIA SERVICE OVER MANAGED PEER-TO-PEER NETWORK OR NGN

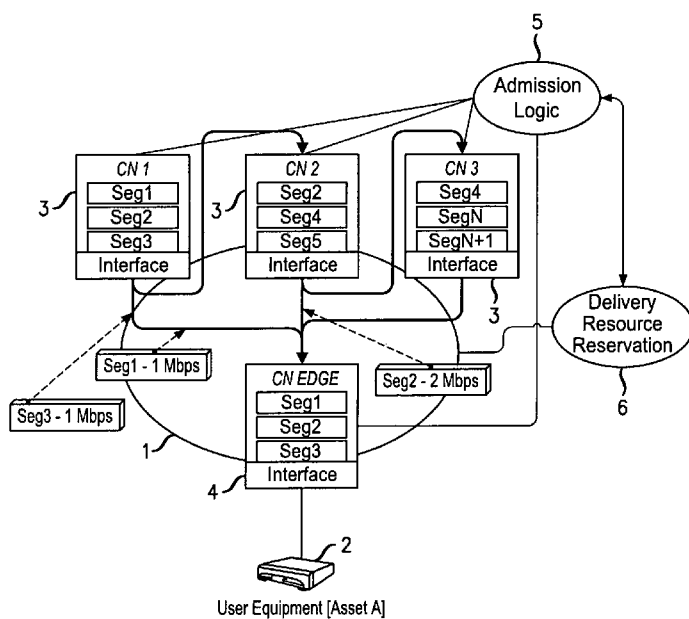
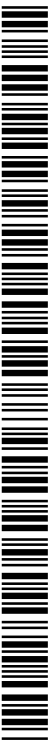


FIG. 1

(57) **Abstract:** Methods and systems are provided for guaranteed quality multimedia service over managed peer-to-peer networks (also known as super peer-to-peer, sP2P, networks). A managed peer-to-peer network (1) for providing a guaranteed quality multimedia service is disclosed. The network comprises at least one caching node (3) for caching multimedia data segments; an edge caching node (4) for serving a user equipment (2) with multimedia data; and an admission logic (5) for checking whether a service request from the user equipment (2) is admitted for a required quality of service, wherein only service requests resulting in media sessions for which the required quality of service can be guaranteed are admitted.



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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006/190615 A1 (PANWAR SHIVENDRA S [US] ET AL) 24 August 2006 (2006-08-24) abstract paragraphs [0005] - [0007], [0044], [0045], [0115], [0117], [0131], [0134]; figures 2,3,13	1-11
A	US 2004/103437 A1 (ALLEGREZZA FRED J [US] ET AL) 27 May 2004 (2004-05-27) abstract paragraphs [0001] - [0014]; figures 1,3	1-11
A	WO 03/087997 A (AKAMAI TECH INC [US]) 23 October 2003 (2003-10-23) pages 1-9	1-11

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2006190615	A1	24-08-2006	NONE	
US 2004103437	A1	27-05-2004	AU 2003287725 A1 CA 2532424 A1 EP 1570671 A2 WO 2004049717 A2	18-06-2004 10-06-2004 07-09-2005 10-06-2004
WO 03087997	A	23-10-2003	AU 2003230868 A1 EP 1493093 A2	27-10-2003 05-01-2005