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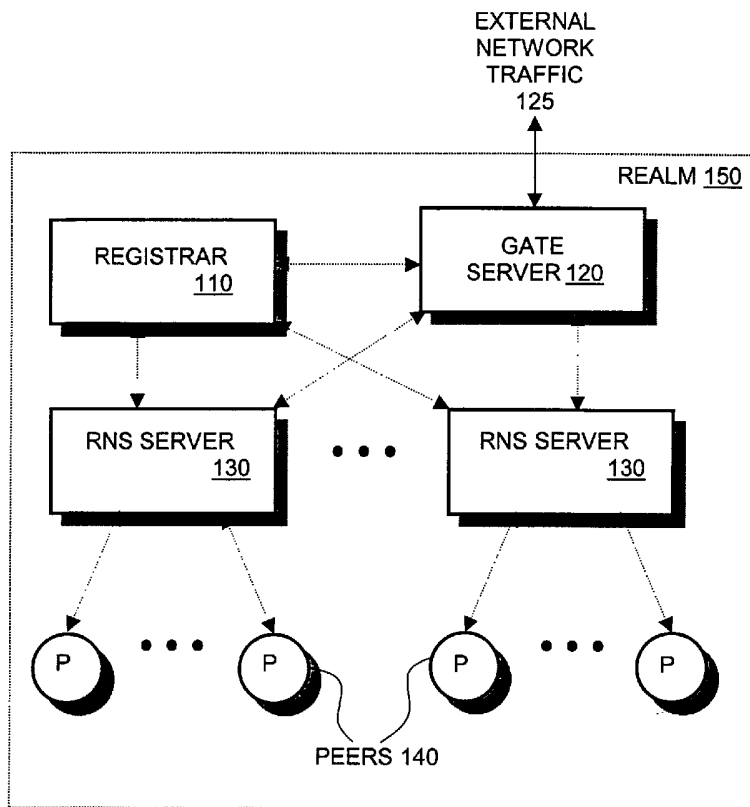
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(54) Title: UNIVERSAL NAMING SCHEME FOR PEER TO PEER RESOURCES



(57) Abstract: Peer devices register with a resource locator service so that the peer devices can be uniquely identified in a networking environment. An addressing scheme addresses a peer resource in the networking environment based on the unique identifier of a peer device that is a master publisher of the resource. Based on the addressing scheme, the resource locator service can track the location of the master publisher of the resource as well as additional locations of peer devices that have cached the resource and made it available. In various embodiments, the resource locator service can service requests for peer resources by providing a list of locations where the resource is expected to be available or, in the case of non-compatible requester, provide access to the resource itself.



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patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04L29/12 H04L29/06

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)

IPC 7 H04L G06F

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

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

EPO-Internal, PAJ, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KANGASHARJU J ET AL: "Locating Copies of Objects Using the Domain Name System" PROCEEDINGS OF THE INTERNATIONAL CACHING WORKSHOP, XX, XX, 1999, pages 1-12, XP002197618	1, 2, 23, 32, 33, 46, 47, 68, 77, 78, 91, 94
Y	Abstract 2 Location Data System 2.1-2.2	3-7, 48-52
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

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PCT/US 01/49433

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>FITZGIBBON J ET AL: "Distributed computing: moving from CGI to CORBA" PROCEEDINGS OF THE 2000 USENIX ANNUAL TECHNICAL CONFERENCE, PROCEEDINGS OF THE 2000 USENIX ANNUAL TECHNICAL CONFERENCE, SAN DIEGO, CA, USA, 18-23 JUNE 2000, pages 139-148, XP002179789 2000, Berkeley, CA, USA, USENIX Assoc, USA ISBN: 1-880446-22-7 Abstracting the server interface Locating remote servers The service HeartBeat daemon Adding load balancing and redundancy</p> <p style="text-align: center;">----</p>	<p>3-7, 48-52</p>
X	<p>FRESHDFRESHMEAT NET: "opennap 0.22 - An open source Napster server" INTERNET NEWSGROUP, 18 March 2000 (2000-03-18), XP002180649</p> <p>the whole document</p> <p style="text-align: center;">----</p>	<p>1,2,23, 32,33, 46,47, 68,77, 78,91,94</p>
A	<p>US 5 946 680 A (LILLY SUSAN CAROL ET AL) 31 August 1999 (1999-08-31) abstract</p> <p style="text-align: center;">-----</p>	<p>1-95</p>

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 5946680	A	NONE	