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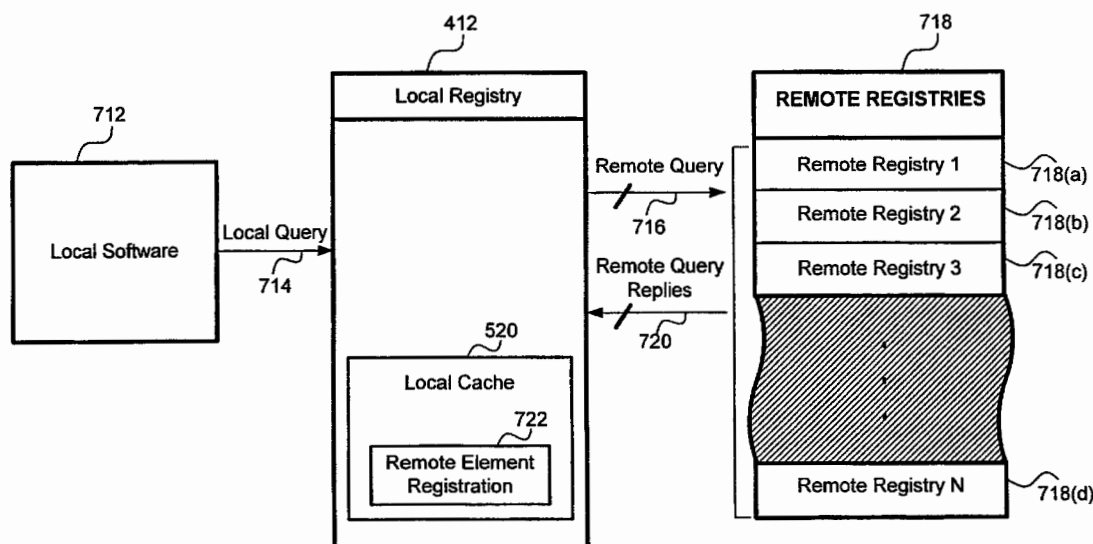
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(54) Title: SYSTEM AND METHOD FOR LOCALLY CACHING REMOTE QUERY REPLIES IN AN ELECTRONIC NETWORK



(57) Abstract: A system and method for locally caching remote query replies (720) in an electronic network (110) comprises a local registry (412) that performs a local query (714) for a local software module (712) to locate a target software element for a network messaging process. If the local query (714) is unsuccessful, the local registry (412) responsively creates a remote query (716) based on the unsuccessful local query (714), and then broadcasts the remote query (716) to remote registries (718) across the electronic network (110). The local registry (412) then evaluates the remote query replies (720) and stores a remote element registration (722) into a local cache (520) for each successful remote query reply (720). The local software module (712) may then locally identify those remote target software elements with which the local software module (712) frequently communicates, to facilitate efficient network messaging processes.

WO 00/62185 A3

INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F17/30 G06F12/08 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 G06F H04L

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, INSPEC, WPI Data, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ASAKA T ET AL: "QUERY CACHING METHOD FOR DISTRIBUTED WEB CACHING" IEICE TRANSACTIONS ON COMMUNICATIONS, JP, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, vol. E81-B, no. 10, 1 October 1998 (1998-10-01), pages 1931-1935, XP000790217 ISSN: 0916-8516 abstract page 1931, left-hand column, line 26 -page 1931, right-hand column, line 39 page 1932, left-hand column, line 1 -page 1932, right-hand column, line 42 --- -/--	1, 2, 21, 22, 41, 42

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *Z* document member of the same patent family

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 618 708 A (IBM) 5 October 1994 (1994-10-05) abstract column 6, line 3 -column 7, line 54 column 10, line 15 -column 11, line 4 ---	1,21,41, 42
A	DATABASE INTERNET 'Online! 19 November 1998 (1998-11-19) "The HAVi Specification - Version 1.0 beta" XP002118795 retrieved from the Internet: < http://www.havi.org/home.html > printed on 11 October 1999 abstract page 26, line 1 -page 26, line 25 page 32, line 1 -page 34, line 34 page 36, line 28 -page 37, line 33 ---	1-42
A	CAO P ET AL: "MAINTAINING STRONG CACHE CONSISTENCY IN THE WORLD WIDE WEB" IEEE TRANSACTIONS ON COMPUTERS,US,IEEE INC. NEW YORK, vol. 47, no. 4, 1 April 1998 (1998-04-01), pages 445-457, XP000740725 ISSN: 0018-9340 abstract page 447, left-hand column, line 1 -page 447, right-hand column, line 25 page 449, left-hand column, line 26 -page 449, right-hand column, line 49 page 451, right-hand column, line 17 -page 451, right-hand column, line 30 -----	17-20, 37-40

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal Application No	
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		JP 2511644 B	03-07-1996
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