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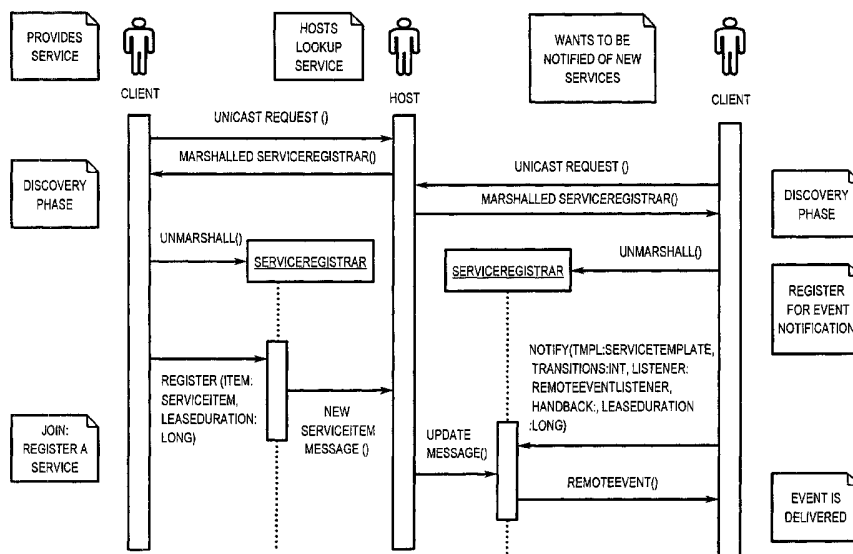
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(54) Title: DISTRIBUTED NETWORKING SYSTEM FOR RESOURCE-CONSTRAINED COMPUTING DEVICES



(57) Abstract: A host computer provides at least one network client with access to at least one network service in a distributed computing environment includes a data processing system that is configured to provide the network clients with access by transmitting lookup service interface means to the network clients. The host computer includes a lookup service which has information associated with each network service. The lookup service means is "self-contained", in that it includes a reference to the network service sufficient to allow the network client to communicate with the network service. The lookup service interface means comprises a non-proxy interface object that is configured to facilitate non-proxy communication with the lookup service.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 02/01375

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F9/46

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

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KAMINSKY A: "JiniME: Jini Connection Technology for Mobile devices" ONLINE, 3 August 2000 (2000-08-03), XP002253531 page 4, paragraph 7 - page 5, paragraph 4	1-52
P, A	SMITH L ET AL: "A JINI LOOKUP SERVICE FOR RESOURCE-CONSTRAINED DEVICES" PROCEEDINGS. IEEE INTERNATIONAL WORKSHOP ON NETWORKED APPLIANCES, XX, XX, 15 January 2002 (2002-01-15), pages 135-144, XP001121564 the whole document ----- -/-	1-52



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

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- "E" earlier document but published on or after the international filing date
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International Application No

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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.
A	SUN MICROSYSTEMS: "Jini (TM) Lookup Service Specification" JINI (TM) LOOKUP SERVICE SPECIFICATION, XX, XX, 25 January 1999 (1999-01-25), XP002154577 page 5 page 9, section 2.5 - page 14 -----	1-52
A	W0 00 77618 A (SUN MICROSYSTEMS INC) 21 December 2000 (2000-12-21) page 7, line 20 - page 23, line 7; figure 1 -----	1-52

INTERNATIONAL SEARCH REPORT

International Application No
PCT/CA 02/01375

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0077618	A	21-12-2000	AU 5606700 A	02-01-2001
			AU 5606900 A	02-01-2001
			EP 1194836 A2	10-04-2002
			EP 1194837 A2	10-04-2002
			WO 0077618 A2	21-12-2000
			WO 0077619 A2	21-12-2000
			US 2002002614 A1	03-01-2002
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