Title (en)

DATABASE MANAGEMENT SYSTEM WITH CAPABILITY OF FINE-GRAINED INDEXING AND QUERYING

Title (de)

DATENBANKVERWALTUNGSSYSTEM DAS FEINKÖRNIGE INDEXIERUNG UND ABFRAGE FÄHIGKEIT HAT

Title (fr)

SYSTEME DE GESTION DE BASE DE DONNEES DOTE D'UNE CAPACITE D'INTERROGATION ET D'INDEXAGE A GRAIN FIN

Publication

EP 1192561 A4 20050420 (EN)

Application

EP 00904610 A 20000128

Priority

- US 0002139 W 20000128
- US 11790999 P 19990129

Abstract (en)

[origin: WO0045304A1] A transactional store of XML documents maintains an index that can be queried at a fine grain level. The documents may be any type of XML documents (300), which encompasses a broad range of data types. A document object interface that enables an index to be built by breaking down a received document into its component parts. The index is a decomposed form of each document with pointers into the documents. The XML grammar enables the invention to maintain relationships inside documents and across documents so that the querying can be done more quickly than if documents had to be parsed with each query (310). The index also allows documents to be queried in a consistent maner. An update language integrates a new document into the existing index (320), as well as removes documents to be deleted and updates the database when a change is made.

IPC 1-7

G06F 17/30

IPC 8 full level

G06F 17/21 (2006.01); **G06F 12/00** (2006.01); **G06F 17/30** (2006.01)

CPC (source: EP)

G06F 16/81 (2018.12); **G06F 16/83** (2018.12)

Citation (search report)

- [Y] US 5809497 A 19980915 - FREUND GREGOR P [US], et al
- [A] US 5717925 A 19980210 - HARPER LLOYD [US], et al
- [A] US 5794030 A 19980811 - MORSI MAGDI [US], et al
- [X] MCHUGH J ET AL: "LORE: A DATABASE MANAGEMENT SYSTEM FOR SEMISTRUCTURED DATA", SIGMOD RECORD, ASSOCIATION FOR COMPUTING MACHINERY, NEW YORK, US, vol. 26, no. 3, September 1997 (1997-09-01), pages 54 - 66, XP000701384
- [X] ABITEBOUL S ET AL: "The Lorel query language for semistructured data", INTERNATIONAL JOURNAL ON DIGITAL LIBRARIES, HEIDELBERG, DE, vol. 1, no. 1, April 1997 (1997-04-01), pages 68 - 88, XP002244491, ISSN: 1432-5012
- [Y] FEATURES AND REQUIREMENTS FOR AN XML VIEW DEFINITION LANGUAGE, 5 December 1998 (1998-12-05), QUERY LANGUAGES 1998 CONFERENCE, XP002318804, Retrieved from the Internet <URL:http://www.w3.org/TandS/QL/QL98/pp/xmas.html> [retrieved on 20050223]
- [Y] SHAH A ET AL: "CREATING HIGH PERFORMANCE WEB APPLICATIONS USING TCL, DISPLAY TEMPLATES, XML, AND DATABASE CONTENT", PROCEEDINGS OF THE ANNUAL TCL/TK CONFERENCE. PROCEEDINGS OF USENIX ANNUAL TCL/TK, XX, XX, 18 September 1998 (1998-09-18), pages 121 - 130, XP001014253
- See references of WO 0045304A1

Cited by

CN103020305A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0045304 A1 20000803; AU 2633800 A 20000818; EP 1192561 A1 20020403; EP 1192561 A4 20050420; JP 2002536723 A 20021029

DOCDB simple family (application)

US 0002139 W 20000128; AU 2633800 A 20000128; EP 00904610 A 20000128; JP 2000596492 A 20000128