

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 January 2002 (10.01.2002)

PCT

(10) International Publication Number
WO 02/03180 A3

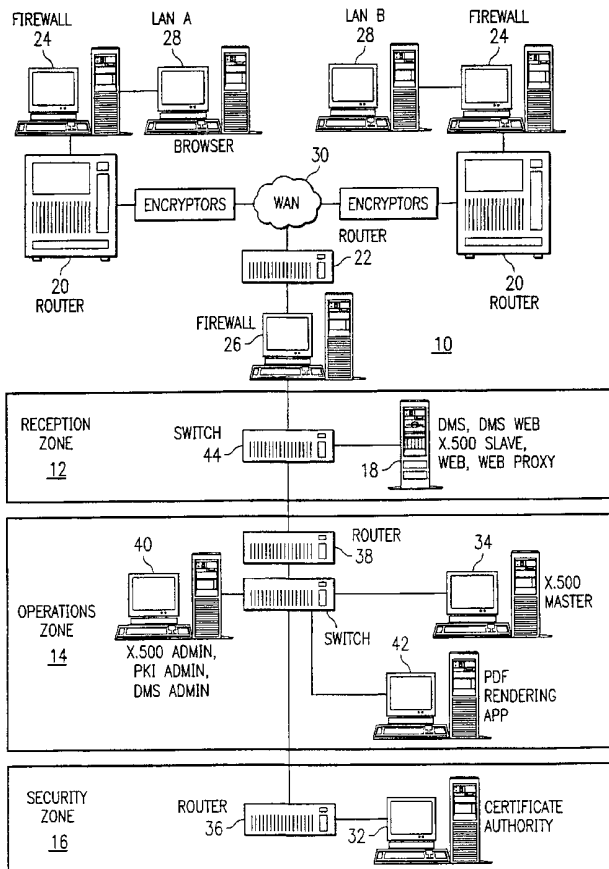
- (51) International Patent Classification⁷: **H04L 29/06**
- (21) International Application Number: PCT/US01/41213
- (22) International Filing Date: 28 June 2001 (28.06.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

60/215,594	30 June 2000 (30.06.2000)	US
09/892,281	26 June 2001 (26.06.2001)	US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

US	09/892,281 (CON)
Filed on	26 June 2001 (26.06.2001)
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- (81) Designated States (national): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE

[Continued on next page]

(54) Title: LAYERED DEFENSE-IN-DEPTH KNOWLEDGE-BASED DATA MANAGEMENT



(57) Abstract: A layered defence-in-depth knowledge-based data management comprises a reception zone (12) for authenticating a user for access to the system and an operations zone (14) for adjudicating on a user level access to data objects stored in the system database. In addition, the data management comprises a security zone (16) for issuing certificates of accessibility for defined users and a screening zone (10) to interrogate data packets during processing thereof. The first line of defence is fire-wall protection and packet filtering preceding the reception zone.



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(utility model), DK, DK (utility model), DM, DZ, EC, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

- (84) Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian 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, 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 the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,*

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW. ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian 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, GW, ML, MR, NE, SN, TD, TG)

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

Published:

- *with international search report*

(88) Date of publication of the international search report:

20 June 2002

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

PC1/US 01/41213

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 940 591 A (BOYLE JOHN M ET AL) 17 August 1999 (1999-08-17)	1-7, 11, 13, 14, 17, 18, 20
A	abstract; figures 5A, 5B, 5C column 5, line 29 - line 36 column 5, line 50 - line 61 column 6, line 4 - line 48 column 6, line 57 - column 7, line 19 column 7, line 38 - column 8, line 4 column 9, line 12 - line 63 claim 41 --- -/--	8-10, 12, 15, 16, 19, 21

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
- *E* earlier document but published on or after the international filing date
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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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.
- *G* document member of the same patent family

Date of the actual completion of the international search

3 January 2002

Date of mailing of the international search report

09/01/2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/41213

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 996 077 A (WILLIAMS CHARLES S) 30 November 1999 (1999-11-30) abstract; figure 2 column 2, line 63 -column 3, line 6 column 5, line 53 -column 6, line 6 -----	1,6,8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/41213

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 5940591	A	17-08-1999	US 5577209 A	19-11-1996
US 5996077	A	30-11-1999	NONE	