

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 April 2004 (01.04.2004)

PCT

(10) International Publication Number
WO 2004/027548 A3

(51) International Patent Classification⁷: **G06F 15/16**

(21) International Application Number:
PCT/US2003/026123

(22) International Filing Date: 21 August 2003 (21.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/246,512 18 September 2002 (18.09.2002) US

(71) Applicant: **COMMERCE ONE OPERATIONS, INC.**
[US/US]; 4440 Rosewood Drive, Pleasanton, CA 94588-3050 (US).

(72) Inventors: **KASI, Jayaram, Rajan**; 5445 Century Meadow Court, San Jose, CA 95111 (US). **MEHTA, Vinkesh, Omprakash**; 8906 Splitarrow Drive, Austin, TX 78717 (US). **SAPURAM, Raghunath**; 1302 Wide Antler Cove, Cedar Park, TX 78613 (US). **VENKAT, Ramshankar**; 3375 Homestead Road #121, Santa Clara, CA 95051 (US).

(74) Agents: **BEFFEL, Ernest, J., Jr.** et al.; Haynes, Beffel & Wolfeld LLP, P.O. Box 366, Half Moon Bay, CA 94109 (US).

(81) Designated States (*national*): 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, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

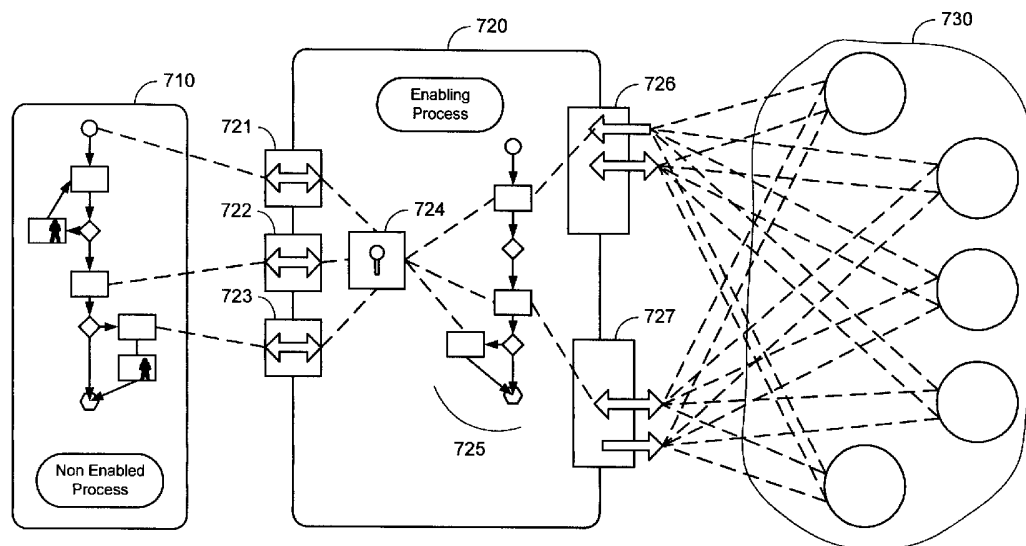
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations

Published:

— with international search report

[Continued on next page]

(54) Title: EXPOSING PROCESS FLOWS AND CHOREOGRAPHY CONTROLLERS AS WEB SERVICES



(57) Abstract: The present invention relates to computer-based devices and methods supporting document exchange choreographies. More particularly, aspects of the present invention relate to devices and methods that facilitate evolution of systems by various combinations of choreography versioning, service versioning and document versioning. It provides for choreography management using a choreography agent and presents choreography-enabled interfaces to non choreography enabled applications. Additional aspects of the present invention include a graphical design tool and transparent aliasing of a host service as multiple context setting franchised services. Particular aspects of the present invention are described in the claims, specification and drawings.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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.

(88) Date of publication of the international search report:
22 April 2004

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26123

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/16

US CL : 709/218

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)

U.S. : 709/218; 709 201,202,203,205,206,207.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPAT; EPO; JPO; DERWENT; IBM-TDBElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,115,744 A (ROBINS et al) 05 September 2000.	1 - 23
A,E	US 6,636,887 B1 (ESTRADA et al) 21 October 2003.	1 - 23
X	US 5,941,945 A (ADITHAM et al) 24 August 1999 - col. 6, lines 30-48, col. 8, line 42, col. 9, line 29, fig. 2-3, 5, 8. col. 4, lines 4-22, col. 1 lines 16-20, 23-62, col. 2 lines 3-24, col. 2, lines 17-24, col. 10, lines 27-55, lines 63-67.	1- 23



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"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

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"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

Date of the actual completion of the international search

02 March 2004 (02.03.2004)

Date of mailing of the international search report

11 MAR 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Peggy Harrod

Telephone No. 305-3900

INTERNATIONAL SEARCH REPORT

PCT/US03/2612

Continuation of B. FIELDS SEARCHED Item 3:

choreograph\$5,web\$3,adj4,servic\$3,near 2,interfa\$4,commerce,versio\$3,provider\$3,versio\$3,collab\$8,interope\$8,langua\$4,differen\$3.