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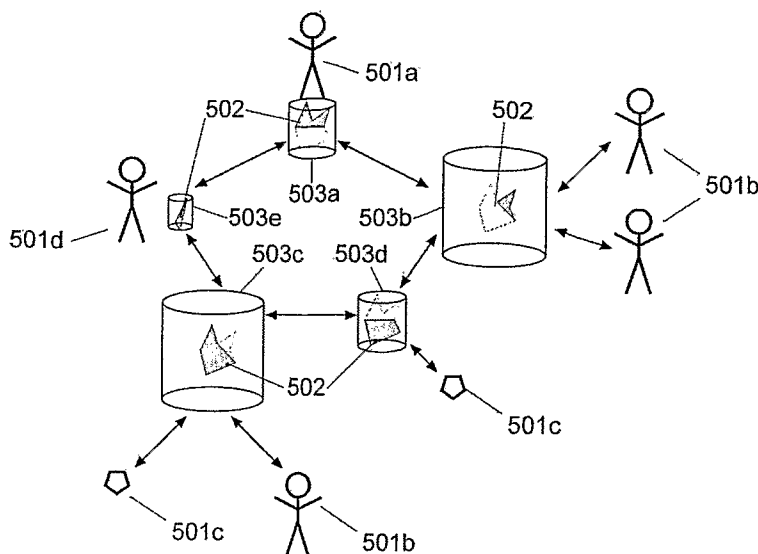
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(54) Title: SYSTEM AND METHOD FOR REPLICATING, INTEGRATING AND SYNCHRONIZING DISTRIBUTED INFORMATION



(57) Abstract: An extensible protocol to replicate, integrate and synchronize distributed information is described which may be implemented in a computer system (FIGURE 5). A system and method for replicating, integrating and synchronizing distributed information is also described.

WO 2005/024596 A3

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G06F 15/173**(2006.01),**9/00**(2006.01),**15/16**(2006.01),**17/30**(2006.01),**17/50**(2006.01);**H04M 15/00**(2006.01)

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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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 practicable, search terms used)
EAST V2.1.0

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2003/0149758 (Riche et al.) 7 August 2003 (07.08.2003) para. [0008], [0011], [0012], [0014], [0015], [0036], [0044], [0047], [0048], [0049], [0051], [0052]	1, 47 ----- 10-13, 22, 23, 32, 68, 72, 79, 81
Y	US 2003/0163597 (Hellman et al) 28 August 2003 (28.08.2003), para. [0002], [0003], [0008], [004], [0060]-[0062], [0067], [0072], [0118], [0124], [0144]-[0153], [0155], [0169]-[0176], [0209], [0218], [0251], [0263],[0336],[0446], [0459], [0914]	2-5, 8, 9, 39, 40, 46, 48, 58, 60, 74, 75
Y	US 2003/0055898 (Yeager et al) 20 March 2003 (20.03.2003), Para. [0049],[0098],[0148],[0159],[0172],[0179] - [0186],[0183],[0197],[0198],[0200],[0202],[0204],[0207],[0208],[0214],[0217],[0234],[0236],[0242],[0246],[0247],[0259],[0308],[0314],[0317],[0319],[0330],[0332],[0334],[0335],[0343],[0348],[0351],[0361],[0368],[0379],[0382]	8, 14-20, 23, 25-30, 32, 34-38, 41, 45, 49, 51- 58, 61-66, 68-70, 76- 78, 80-84

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,067,354 (Bauer et al.) 23, May, 2000 (23.05.2000), column 2, lines 54-57, column 15, lines 9-15, 38-41, 43-49.	32, 44, 50
Y	US 6,460,068 B1 (Novaes) 1 October 2002 (01.10.2002), column 2, lines 58-61	31
Y	US 2002/0116383 A1 (Wollrath et al.) 22 August 2002 (22.08.2002), column, lines 4-7	21
Y	US 6,529,908 (Piett et al) 4 March 2003 (04.03.2003), column 6, lines 46-49	42, 67
Y	US 6,671,898 B2 (Davidson et al) 30 December 2003 (30.12.2003), column 25, lines 48-51	43