

Title (en)
Communications network

Title (de)
Kommunikationsnetzwerk

Title (fr)
Réseau de communications

Publication
EP 0977163 A3 20040428 (EN)

Application
EP 99305625 A 19990715

Priority
• GB 9816178 A 19980725
• US 22904699 A 19990112

Abstract (en)
[origin: EP0977163A2] A communications network (10) comprises a plurality of network sites (12), to each of which a service terminal (16,18), a maintenance terminal (20), or a server (22) may be connected. Each service terminal (16,18), which may be an ATM or a point-of-sale terminal, has at least one service element (44), such as a card transport or currency bin, that is to be maintained in operation. Intelligent agent programs (50) move between terminals (16,18,20) collecting information from or imparting information to each terminal (16,18,20) visited. The information that is collected or imparted is used for facilitating efficient maintenance of the service terminals (16,18). <IMAGE>

IPC 1-7
G07F 7/10; **G07F 19/00**

IPC 8 full level
G07D 9/00 (2006.01); **G06Q 40/00** (2006.01); **G07F 5/18** (2006.01); **G07F 19/00** (2006.01)

CPC (source: EP US)
G07F 5/18 (2013.01 - EP); **G07F 9/001** (2020.05 - EP US); **G07F 9/002** (2020.05 - EP); **G07F 19/20** (2013.01 - EP); **G07F 19/207** (2013.01 - EP)

Citation (search report)
• [X] US 5655081 A 19970805 - BONNELL DAVID N [US], et al
• [A] US 5539877 A 19960723 - WINOKUR ALEX [IL], et al
• [X] COVACI S ET AL: "Java-based intelligent mobile agents for open system management", TOOLS WITH ARTIFICIAL INTELLIGENCE, 1997. PROCEEDINGS., NINTH IEEE INTERNATIONAL CONFERENCE ON NEWPORT BEACH, CA, USA 3-8 NOV. 1997, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 3 November 1997 (1997-11-03), pages 492 - 501, XP010254362, ISBN: 0-8186-8203-5
• [X] BIESZCZAD A ET AL: "Network management application-oriented taxonomy of mobile code", NETWORK OPERATIONS AND MANAGEMENT SYMPOSIUM, 1998. NOMS 98., IEEE NEW ORLEANS, LA, USA 15-20 FEB. 1998, NEW YORK, NY, USA, IEEE, US, 15 February 1998 (1998-02-15), pages 659 - 669, XP010267394, ISBN: 0-7803-4351-4
• [A] S. FRANKLIN AND A. GRAESSER: "Is it an agent, or just a program?: a taxonomy for autonomous agents", PROCEEDINGS OF THE THIRD INTERNATIONAL WORKSHOP ON AGENT THEORIES, ARCHITECTURES AND LANGUAGES, - 1996, XP002255762, Retrieved from the Internet <URL:http://www.msci.memphis.edu/~franklin/AgentProg.html> [retrieved on 20030903]
• [A] LIOTTA A ET AL: "Modelling network and system monitoring over the Internet with mobile agents", NETWORK OPERATIONS AND MANAGEMENT SYMPOSIUM, 1998. NOMS 98., IEEE NEW ORLEANS, LA, USA 15-20 FEB. 1998, NEW YORK, NY, USA, IEEE, US, 15 February 1998 (1998-02-15), pages 303 - 312, XP010267404, ISBN: 0-7803-4351-4
• [A] GARIJO ET AL: "A multiagent system for cooperative network-fault management", PROCEEDINGS OF THE FIRST INTERNATIONAL CONFERENCE AND EXHIBITION ON THE PRACTICAL APPLICATIONS OF INTELLIGENT AGENTS AND MULTI-AGENT TECHNOLOGY, PAGES 279- 294, LONDON., - 1996, XP002270915, Retrieved from the Internet <URL:http://citeseer.nj.nec.com/garijo96multiagent.html> [retrieved on 20040218]
• [A] SCHROEDER ET AL: "Distributed diagnosis by vivid agents", PROCEEDINGS OF INTERNATIONAL CONFERENCE ON AUTONOMOUS AGENTS, ACM PRESS, - 1997, XP002270916, Retrieved from the Internet <URL:http://citeseer.nj.nec.com/schroeder97distributed.html> [retrieved on 20040218]
• [XP] ZHANG D ET AL: "Developing network management applications in an application-oriented way using mobile agent", COMPUTER NETWORKS AND ISDN SYSTEMS, NORTH HOLLAND PUBLISHING. AMSTERDAM, NL, vol. 30, no. 16-18, 30 September 1998 (1998-09-30), pages 1551 - 1557, XP004138686, ISSN: 0169-7552

Cited by
EP2124204A3; EP1754188A4; GB2368442A; GB2381111A; GB2381111B; CN101471962A; EP2073159A3; EP1577856A1; US7522880B2; WO2005116900A1; US2020402157A1; WO0247039A3; WO0247043A3; US7451919B2; US10607454B2; US6959187B2; US7522916B2

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)
EP 0977163 A2 20000202; **EP 0977163 A3 20040428**; BR 9902989 A 20000822; JP 2000067146 A 20000303

DOCDB simple family (application)
EP 99305625 A 19990715; BR 9902989 A 19990721; JP 20961499 A 19990723