

Title (en)
DEVICE, ROUTER, METHOD AND SYSTEM FOR PROVIDING A HYBRID MULTIPLE ACCESS PROTOCOL FOR USERS WITH MULTIPLE PRIORITIES

Title (de)
VORRICHTUNG, WEGSUCHER, VERFAHREN UND SYSTEM ZUR VERFÜGUNGSTELLUNG EINES PROTOKOLS MIT HYBRIDEN MEHRFACHZUGRIFF FÜR TEILNEHMER MIT MEHREREN PRIORITÄTEN

Title (fr)
DISPOSITIF, APPAREIL D'ACHEMINEMENT, PROCEDE ET SYSTEME DE FOURNITURE D'UN PROTOCOLE HYBRIDE D'ACCES MULTIPLES POUR DES UTILISATEURS A PRIORITES MULTIPLES

Publication
EP 0850518 A4 19991124 (EN)

Application
EP 96928999 A 19960822

Priority
• US 9613601 W 19960822
• US 52629595 A 19950911

Abstract (en)
[origin: WO9710655A1] A system, device (100), router and method (200) implement a hybrid multiple access protocol for users with multiple priorities that provides efficient reservation of channel resources to accommodate users with randomly transmitted requests wherein the users have multiple priorities. The present invention provides the following benefits over existing solutions: 1) support of multiple service categories; 2) insurance that all users admitted to the system receive their negotiated service guarantee appropriate for their service category; 3) achieves an overall system performance that is comparable to centralized algorithms at high system loads, while allowing desirable performance levels of distributed access protocols at low system loads; 4) allows transmission of variable number of packets each with variable size when access is granted to a user; and 5) reduces the number of instances a user needs to content for access, thereby reducing collisions and overhead due to contention slots and improving system performance.

IPC 1-7
H04J 3/17

IPC 8 full level
H04L 12/28 (2006.01); **H04L 12/403** (2006.01); **H04L 12/413** (2006.01)

CPC (source: EP)
H04L 12/2801 (2013.01); **H04L 12/403** (2013.01); **H04L 41/00** (2013.01)

Citation (search report)
• [A] EP 0621708 A2 19941026 - IBM [US]
• [A] EP 0444207 A1 19910904 - FUJITSU LTD [JP]
• See references of WO 9710655A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9710655 A1 19970320; AU 6856396 A 19970401; CA 2231263 A1 19970320; CN 1196145 A 19981014; EP 0850518 A1 19980701; EP 0850518 A4 19991124

DOCDB simple family (application)
US 9613601 W 19960822; AU 6856396 A 19960822; CA 2231263 A 19960822; CN 96196882 A 19960822; EP 96928999 A 19960822