

Title (en)
SYSTEM, DEVICE, AND METHOD FOR PROVIDING LOW ACCESS DELAY FOR TIME-SENSITIVE APPLICATIONS IN A SHARED MEDIUM NETWORK

Title (de)
SYSTEM, VORRICHTUNG UND VERFAHREN ZUM ZUGRIFF MIT GERINGER VERZÖGERUNG FÜR ZEITSENSITIVE ANWENDUNGEN IN EINEM NETZ MIT GEMEINSAMEN MEDIUM

Title (fr)
SYSTEME, DISPOSITIF ET PROCEDE PERMETTANT DE RACCOURCIR LE TEMPS D'ACCES POUR DES APPLICATIONS A DUREE DE VIE CRITIQUE DANS UN RESEAU A SUPPORT DE TRANSMISSION PARTAGE

Publication
EP 0990331 A1 20000405 (EN)

Application
EP 98922235 A 19980513

Priority
• US 9809715 W 19980513
• US 88452797 A 19970627

Abstract (en)
[origin: WO9900941A1] A system, device, and method for providing low access delay for time-sensitive applications in a shared medium network segregates MAC Users into a high-priority group and a low-priority group. Where the MAC User priorities are not known a priori, the MAC User priorities are inferred from the size of the data packets transmitted by the MAC Users. MAC Users transmitting small packets are placed in the high-priority group, while MAC Users transmitting large packets are placed in the low-priority group. The headend unit first polls all of the high-priority MAC Users, and then polls low-priority MAC Users until either all low-priority MAC Users have been polled or the low-priority MAC Users have been serviced for a predetermined maximum polling time. The headend unit repeats this polling sequence in sequential polling cycles to provide the high-priority MAC Users with expedited access to the shared channel.

IPC 1-7
H04L 12/403

IPC 8 full level
H04L 12/403 (2006.01); **H04L 12/64** (2006.01)

CPC (source: EP KR)
H04L 12/40143 (2013.01 - EP); **H04L 12/403** (2013.01 - KR); **H04L 12/4035** (2013.01 - EP); **H04L 12/6418** (2013.01 - EP); **H04L 2012/6421** (2013.01 - EP); **H04L 2012/6427** (2013.01 - EP); **H04L 2012/6448** (2013.01 - EP); **H04L 2012/6464** (2013.01 - EP)

Citation (search report)
See references of WO 9900941A1

Designated contracting state (EPC)
DE FI FR GB NL SE

DOCDB simple family (publication)
WO 9900941 A1 19990107; AU 720470 B2 20000601; AU 7483198 A 19990119; BR 9810343 A 20000905; CA 2292479 A1 19990107; CN 1262008 A 20000802; EP 0990331 A1 20000405; JP 2002506593 A 20020226; KR 20010014200 A 20010226

DOCDB simple family (application)
US 9809715 W 19980513; AU 7483198 A 19980513; BR 9810343 A 19980513; CA 2292479 A 19980513; CN 98806655 A 19980513; EP 98922235 A 19980513; JP 50553099 A 19980513; KR 19997012278 A 19991224