

Title (en)
METHOD AND SYSTEM FOR TRANSMITTING DATA ASYNCHRONOUSLY IN A DATA TRANSMISSION NETWORK

Title (de)
VERFAHREN UND SYSTEM ZUM ASYNCHRONEN ÜBERTRAGEN VON DATEN IN EINEM DATENÜBERTRAGUNGSNETZWERK

Title (fr)
PROCÉDÉ ET SYSTÈME POUR TRANSMETTRE DES DONNÉES DE MANIÈRE ASYNCHRONE DANS UN RÉSEAU DE TRANSMISSION DE DONNÉES

Publication
EP 2220831 A4 20101222 (EN)

Application
EP 07858305 A 20071128

Priority
FI 2007000281 W 20071128

Abstract (en)
[origin: WO2009068721A1] The invention relates to a method and system (100) for transmitting data asynchronously in a data transmission network (102) with at least two nodes (the main node and connection node, 104, 108). The system also includes a loop (106a, 106b), in which data is transmitted in a primary carrier frame (400) via channels (3, 7, 11, 12, 13, 23, 25, 127). The main node (104, 108) administers the loop and generates to it also the data transmitting primary carrier frame (400). Devices connected to the connection node belong to an application, to which a channel is assigned in the loop, which means a data transmission resource separated from the carrier frame in a time-shared manner; a data field, in which the user's data unit is transmitted divided into as many parts of the length of the data field as are needed for transmitting the whole data unit. The slices are transmitted to the receiver transparently as a bit string independent of the data transmission protocol via the said channel in the data field of the carrier frame without touching the contents or structure of the data unit to be transmitted and without reading its possible address or length fields. A connection circuit (109a) in the data transmitting node is adapted to provide as output a first electric signal to be transmitted in the bit stream transmitted in the data transmission network, indicating the starting point for the data unit in the bit stream transmitted in the data transmission network. In this case the receiving node can form a timely electric signal indicating the beginning of the bits belonging to the data unit in the connection circuit of the node receiving the electric signal.

IPC 8 full level
H04L 12/28 (2006.01); **H04L 12/40** (2006.01); **H04L 12/42** (2006.01); **H04L 12/46** (2006.01)

CPC (source: EP)
H04L 12/2838 (2013.01); **H04L 12/4035** (2013.01); **H04L 12/42** (2013.01); **H04L 12/40136** (2013.01)

Citation (search report)

- [XYI] US 6865188 B1 20050308 - STIRLING ANDREW J [GB], et al
- [YA] NAKATSUKA S ET AL: "MELNET: HIERARCHICAL HYBRID LOCAL AREA NETWORK", PROCEEDINGS OF THE ANNUAL INTERNATIONAL PHOENIX CONFERENCE ON COMPUTERS AND COMMUNICATIONS. SCOTTSDALE, ARIZONA, MAR. 26 - 28, 1986; [PROCEEDINGS OF THE ANNUAL INTERNATIONAL PHOENIX CONFERENCE ON COMPUTERS AND COMMUNICATIONS], WASHINGTON, IEEE COMP., vol. CONF. 5, 1 March 1986 (1986-03-01), pages 239 - 245, XP000810056
- See references of WO 2009068721A1

Citation (examination)
EP 0410636 A2 19910130 - AMERICAN TELEPHONE & TELEGRAPH [US]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2009068721 A1 20090604; EP 2220831 A1 20100825; EP 2220831 A4 20101222

DOCDB simple family (application)
FI 2007000281 W 20071128; EP 07858305 A 20071128