

Title (en)

SYNCHRONIZATION DATA DETECTION UNIT AND METHOD

Title (de)

DETEKTIONSEINHEIT UND DETEKTIONSVERFAHREN FÜR SYNCHRONISATIONS DATEN

Title (fr)

UNIT ET PROC D DE D TECTION DE DONN ES DE SYNCHRONISATION

Publication

**EP 1488565 A1 20041222 (EN)**

Application

**EP 03713809 A 20030228**

Priority

- DE 10214063 A 20020328
- US 0306259 W 20030228
- US 25971702 A 20020927

Abstract (en)

[origin: WO03084119A1] A synchronization data detecting unit is provided in a communication system for detecting predetermined synchronization data. The synchronization data are sent in a transmission frame in a communication signal of the communication system. The synchronization data include a sequence of identical binary symbols which are transmitted after scrambling. The synchronization detection unit comprises a descrambler (406) for descrambling the received communication and for producing an output data sequence having multi-level signal values. The multi-level signal values of the descrambler output are smoothed in a filter unit (407). The smoothed signal is compared with a predetermined threshold value. If the smoothed signal exceeds the predefined threshold value, a detection of said synchronized data is indicated.

IPC 1-7

**H04L 7/02**

IPC 8 full level

**H04B 1/707** (2011.01); **H04L 7/00** (2006.01); **H04L 7/10** (2006.01); **H04L 12/28** (2006.01); **H04L 12/56** (2006.01); **H04L 7/027** (2006.01)

CPC (source: EP)

**H04B 1/70755** (2013.01); **H04L 7/10** (2013.01); **H04W 56/009** (2013.01); **H04L 7/027** (2013.01)

Citation (search report)

See references of WO 03084119A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**WO 03084119 A1 20031009**; AU 2003217841 A1 20031013; CN 100367698 C 20080206; CN 1643838 A 20050720; EP 1488565 A1 20041222; JP 2005522093 A 20050721; JP 4191612 B2 20081203; TW 200306730 A 20031116; TW I251421 B 20060311

DOCDB simple family (application)

**US 0306259 W 20030228**; AU 2003217841 A 20030228; CN 03806895 A 20030228; EP 03713809 A 20030228; JP 2003581399 A 20030228; TW 92106581 A 20030325