

Title (en)

SERIAL DATA TRANSMISSION VIA A BUS SYSTEM

Title (de)

SERIELLE DATENÜBERTRAGUNG ÜBER EIN BUSSYSTEM

Title (fr)

TRANSMISSION DE DONNEES SERIELLE PAR L'INTERMEDIAIRE D'UN SYSTEME A BUS

Publication

**EP 1238319 A2 20020911 (DE)**

Application

**EP 00974303 A 20000907**

Priority

- DE 0003109 W 20000907
- DE 19944041 A 19990914

Abstract (en)

[origin: WO0120416A2] The present invention relates to a passive component (11) for a bus system, such as a field bus system for instance, with a bus interface (21) for the connection to a bus, a serial interface (22) for serially reading out and in data, a data memory (24) with an output area (25) for storing data that is read in via the bus interface (21) and is to be read out via the serial interface (22) and an input area (26) for storing data that is read in via the serial interface and is to be read out via the bus interface. The inventive component also comprises a control device (23) for controlling data transmission and data storing. Detection means (27, 28) for detecting the state of the output area and the input area and for providing corresponding state information are provided. Data are read into the output area and are read out from the input area via the bus interface and on the basis of said state information when the bus system is connected. The present invention also relates to a corresponding active component (10) for exchanging data with such a passive component (11). The invention further relates to a method for reading out and in data into or from a bus system which comprises such a passive component (11) and such an active component (10). The present invention enables data communication between such a bus system and one or several distributed peripheral devices via serial interfaces.

IPC 1-7

**G05B 19/418**; **G05B 19/042**

IPC 8 full level

**G05B 19/042** (2006.01); **G05B 19/418** (2006.01)

CPC (source: EP US)

**G05B 19/0421** (2013.01 - EP US); **G05B 19/4185** (2013.01 - EP US); **Y02P 90/02** (2015.11 - EP US)

Citation (search report)

See references of WO 0120416A2

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

**WO 0120416 A2 20010322**; **WO 0120416 A3 20011011**; CN 1218231 C 20050907; CN 1375079 A 20021016; EP 1238319 A2 20020911; US 6907488 B1 20050614

DOCDB simple family (application)

**DE 0003109 W 20000907**; CN 00812914 A 20000907; EP 00974303 A 20000907; US 7099102 A 20020314