

Title (en)

FIELD BUS SYSTEM FOR THE CONTROL OF SAFETY-CRITICAL PROCESSES

Title (de)

FELDBUSSYSTEM ZUM STEUERN VON SICHERHEITSKRITISCHEN PROZESSEN

Title (fr)

SYSTEME DE BUS DE TERRAIN POUR LA COMMANDE DE PROCESS DE SECURITE

Publication

**EP 1330908 A1 20030730 (DE)**

Application

**EP 01993099 A 20011022**

Priority

- DE 10053763 A 20001030
- EP 0112156 W 20011022

Abstract (en)

[origin: WO0237791A1] The invention relates to a field bus system (10; 12), for the control of safety-critical processes, comprising a transmission medium (14; 16) and a number of bus users (18, 20, 22; 24, 26, 28), connected to the transmission medium (14; 16), whereby the bus users (18, 20, 22; 24, 26, 28) can send bus telegrams (46; 50) to each other by means of the transmission medium (14; 16), for the purpose of communicating with each other. Said field bus system (10; 12) is characterised in that the transmission medium (14; 16) comprises an open communication channel and that the communication protocol contains an individual system identifier (38, 40, 48; 42, 44, 52), connected to at least each of the bus telegrams (46; 50) which are sent over the open communication channel (14; 16).

IPC 1-7

**H04L 29/06**; G05B 19/418; H04L 12/413; H04L 12/46

IPC 8 full level

**H04L 12/28** (2006.01); **H04L 29/06** (2006.01); **H04L 29/08** (2006.01); **H04L 12/413** (2006.01)

CPC (source: EP US)

**H04L 9/40** (2022.05 - US); **H04L 67/12** (2013.01 - EP US); **G05B 2219/31135** (2013.01 - EP US); **G05B 2219/31174** (2013.01 - EP US); **H04L 12/40169** (2013.01 - EP US); **H04L 2012/40208** (2013.01 - EP US)

Citation (search report)

See references of WO 0237791A1

Citation (examination)

- EP 0905594 A1 19990331 - PHOENIX CONTACT GMBH & CO [DE]
- WO 9844399 A2 19981008 - ELAN SCHALTELEMENTE GMBH [DE], et al

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0237791 A1 20020510**; AU 1904502 A 20020515; DE 10053763 A1 20020516; DE 10053763 C2 20021017; EP 1330908 A1 20030730; JP 2004513568 A 20040430; JP 4034182 B2 20080116; US 2004010651 A1 20040115

DOCDB simple family (application)

**EP 0112156 W 20011022**; AU 1904502 A 20011022; DE 10053763 A 20001030; EP 01993099 A 20011022; JP 2002540406 A 20011022; US 42643003 A 20030429