

Title (en)

Device for monitoring safety-relevant processes in machines

Title (de)

Vorrichtung zur Überwachung von sicherheitsrelevanten Vorgängen an Maschinen

Title (fr)

Dispositif pour la surveillance des processus importants pour la sécurité dans des machines

Publication

EP 1454747 B1 20140402 (DE)

Application

EP 04102212 A 19990226

Priority

- DE 19908230 A 19990225
- EP 99103804 A 19990226

Abstract (en)

[origin: EP1031420A1] The device has at least one field bus system (2) that connects an operating controller (1), a safety-relevant input/output device (4) and at least one safety monitoring controller (6). The safety input/output device and/or safety monitoring controller is/are mounted on the control/drive elements (9,10) performing the safety-relevant functions in a distributed manner. Independent claim is also included for a method of monitoring safety-relevant processes in drive/control arrangement in machines.

IPC 8 full level

B41F 33/00 (2006.01); **B42D 15/00** (2006.01)

CPC (source: EP US)

B41F 33/0009 (2013.01 - EP US); **B41F 33/0018** (2013.01 - EP US)

Cited by

DE102008001214B4; DE102008001214A1; WO2009127465A1; WO2007036472A1; US6173688B1; US6334415B1

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 1031420 A1 20000830; EP 1031420 B1 20040811; DE 19908230 A1 20000831; DE 59910196 D1 20040916; EP 1454747 A2 20040908;
EP 1454747 A3 20071010; EP 1454747 B1 20140402; JP 2000246878 A 20000912; JP 5052710 B2 20121017; US 6832121 B1 20041214

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EP 99103804 A 19990226; DE 19908230 A 19990225; DE 59910196 T 19990226; EP 04102212 A 19990226; JP 27891599 A 19990930;
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