

Title (en)
SAFETY SYSTEM FOR AN ELEVATOR STRUCTURE

Title (de)
SICHERHEITSSYSTEM EINER AUFZUGSANLAGE

Title (fr)
SYSTEME DE SECURITE D'UNE INSTALLATION D'ASCENSEUR

Publication
EP 1638880 B2 20130724 (DE)

Application
EP 04738034 A 20040625

Priority
• CH 2004000393 W 20040625
• EP 03405483 A 20030630
• EP 04738034 A 20040625

Abstract (en)
[origin: US7350624B2] Safety system of an elevator installation, with a control unit, a bus node, a safety element and a bus, which enables a communication between the control unit and the bus node. The bus node includes a first switching arrangement, which on digital presetting by the control unit acts on the safety element by a first analog signal. The bus node additionally includes a second switching arrangement which derives an analog signal from the safety element and makes digital feedback information available to the control unit by way of the bus.

IPC 8 full level
B66B 5/00 (2006.01); **B66B 13/22** (2006.01)

CPC (source: EP KR US)
B66B 5/00 (2013.01 - KR); **B66B 5/0031** (2013.01 - EP US); **B66B 5/02** (2013.01 - KR); **B66B 13/22** (2013.01 - EP KR US)

Citation (opposition)
Opponent :
US 5717174 A 19980210 - RAMOS JULIO C [US]

Cited by
WO2013020934A1; CN102491141A; AU2012293670B2; US10926974B2; US9695016B2

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2005000727 A1 20050106; AT E367993 T1 20070815; AU 2004251797 A1 20050106; AU 2004251797 B2 20100304;
AU 2004251797 B8 20100805; BR PI0412047 A 20060905; BR PI0412047 B1 20150901; CA 2526984 A1 20050106; CA 2526984 C 20120403;
CN 100590051 C 20100217; CN 1812923 A 20060802; CY 1106914 T1 20120926; DE 502004004449 D1 20070906; DK 1638880 T3 20071008;
DK 1638880 T4 20131014; EP 1638880 A1 20060329; EP 1638880 B1 20070725; EP 1638880 B2 20130724; ES 2291884 T3 20080301;
ES 2291884 T5 20131129; HK 1090015 A1 20061215; JP 2007506625 A 20070322; JP 4647599 B2 20110309; KR 100724325 B1 20070604;
KR 20060035651 A 20060426; MX PA05013517 A 20060309; NZ 543896 A 20080731; PL 1638880 T3 20071231; PL 1638880 T5 20131231;
PT 1638880 E 20070921; SI 1638880 T1 20071231; SI 1638880 T2 20131030; US 2006157305 A1 20060720; US 7350624 B2 20080401

DOCDB simple family (application)
CH 2004000393 W 20040625; AT 04738034 T 20040625; AU 2004251797 A 20040625; BR PI0412047 A 20040625; CA 2526984 A 20040625;
CN 200480018080 A 20040625; CY 071101281 T 20071008; DE 502004004449 T 20040625; DK 04738034 T 20040625;
EP 04738034 A 20040625; ES 04738034 T 20040625; HK 06110645 A 20060925; JP 2006517926 A 20040625; KR 20057025425 A 20051230;
MX PA05013517 A 20040625; NZ 54389604 A 20040625; PL 04738034 T 20040625; PT 04738034 T 20040625; SI 200430483 T 20040625;
US 56318405 A 20051230