

Title (en)
Safety switching circuitry

Title (de)
Sicherheitsschaltanordnung

Title (fr)
Circuit de sécurité avec contacteurs

Publication
EP 1037234 A3 20030402 (DE)

Application
EP 00102642 A 20000208

Priority
DE 19911698 A 19990316

Abstract (en)
[origin: EP1037234A2] The safety cut-out switch has at least 2 series opening switches (12a,12b,12c) coupled to a microprocessor evaluation unit (11), for providing a safety signal, e.g. an alarm or cut-out signal, upon opening of at least one of these switches, which each have a code signal generator (13a,13b,13c), coupled to the evaluation unit via a common diagnosis line, for providing a code signal identifying the operated switch.

IPC 1-7
H01H 47/00

IPC 8 full level
H01H 47/00 (2006.01)

CPC (source: EP US)
H01H 47/002 (2013.01 - EP US)

Citation (search report)

- [A] DE 2836760 A1 19800306 - RISTOW KG DR ALFRED
- [A] DE 3619723 A1 19871217 - KLOECKNER MOELLER ELEKTRIZIT [DE]
- [A] DE 4104590 A1 19910829 - NEEDS ELECTRONICS CO [JP]
- [A] DE 19734589 A1 19981029 - ELAN SCHALTELEMENTE GMBH [DE]
- [A] DE 4306950 A1 19940908 - BALLUFF GEBHARD FEINMECH [DE]
- [A] EP 0588529 A2 19940323 - AMERICAN TELEPHONE & TELEGRAPH [US]

Cited by
EP2682834A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1037234 A2 20000920; EP 1037234 A3 20030402; EP 1037234 B1 20041215; AT E285117 T1 20050115; DE 19911698 A1 20000921; DE 50008927 D1 20050120; US 6417582 B1 20020709

DOCDB simple family (application)
EP 00102642 A 20000208; AT 00102642 T 20000208; DE 19911698 A 19990316; DE 50008927 T 20000208; US 52263700 A 20000310