

Title (en)
Key-controlled safety switch

Title (de)
Schlüsselsicherheitsschalter

Title (fr)
Interrupteur de sécurité à clé

Publication
EP 0987726 A3 20010307 (EN)

Application
EP 99118263 A 19990915

Priority
IT VI980169 A 19980915

Abstract (en)
[origin: EP0987726A2] A key-controlled safety switch assembly includes a box-like case (2) anchorable to a fixed part of a protection or barrier of a machine or installation and provided with one or more slots (5), an actuating key (3) anchorable to a moving part of the protection and insertable in any of the slots (5). The case (2) contains internally thereof a safety electric circuit (6) for selectively closing/opening a general relais or a safety switch of the machine or installation on insertion/extraction of actuating key (3), locking parts (9) for selectively locking the actuating key (3) in the inserted position in a slot (5) until the dangerous parts of the machine or installation are moving, a detecting device (13) for detecting the position of the key (3) to allow closing of the safety switch (6). The detecting device (13) is exclusively of the electronic type acting from distance, and the key (3) is shaped so as to enter freely in the slot (5) with a minimal predetermined clearance (s). <IMAGE>

IPC 1-7
H01H 27/00; **H01H 36/00**

IPC 8 full level
H01H 27/00 (2006.01); **H01H 36/00** (2006.01)

CPC (source: EP)
H01H 27/007 (2013.01); **H01H 36/0046** (2013.01); **H01H 2027/005** (2013.01)

Citation (search report)

- [YD] EP 0837485 A2 19980422 - KLOECKNER MOELLER GMBH [DE]
- [Y] US 5541562 A 19960730 - FLETCHER THOMAS A [US], et al
- [Y] US 5233323 A 19930803 - BURKETT ROY A [US], et al
- [Y] US 5239202 A 19930824 - HOSTETLER FRED L [US]
- [YD] EP 0814490 A2 19971229 - KLOECKNER MOELLER GMBH [DE]
- [YD] DE 3309372 A1 19840927 - KRONENBERG GMBH H & J [DE]
- [A] DE 3424418 C1 19850912 - KRONENBERG GMBH H & J
- [A] FR 2721423 A1 19951222 - PEDROLI JEAN NOEL [FR]

Cited by
DE102004049024B3; EP1548654A3; EP2390888A1; EP3745438A1; CN112096192A; EP1638206A2; US10997486B1; US11572709B2; JP2019183541A; JP2022145855A; ITVI20130291A1; KR20160096098A; JP2017500724A; EP3745439A1; DE10230564A1; ITVI20130290A1; CN105793947A; KR20160094982A; JP2017510034A; US9819342B2; US8653914B2; US8872607B2; US11473336B2; WO2015083144A1; WO2013087183A1; WO2015083143A1

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