

Title (en)
Timed electromechanical safety switch

Title (de)
Zeitgesteuerter elektromechanischer Sicherheitsschalter

Title (fr)
Interrupteur électromécanique de sécurité et à délai

Publication
EP 0849750 A3 19990317 (EN)

Application
EP 97119512 A 19971107

Priority
IT VI960215 A 19961219

Abstract (en)
[origin: EP0849750A2] A timed safety switch, particularly for accident-prevention doors of machines and apparatus, includes an enclosure (2) which can be anchored to the machine and internally accommodates a series of fixed electrical contacts (3) and of moving electrical contacts (3'), devices (4, 5) for locking the door which includes a safety key (4) which can be anchored to the door and can be inserted in a slot (7) of the enclosure (2), delay devices (11) which can move between an active position and an inactive position and are suitable to anticipate or delay the operation of the locking devices (4, 5) with respect to the actuation of the switch, clearance-providing devices (8) which can move to allow the insertion/extraction of the key (4) through the slot (7) only when the delay devices (11) are in their inactive position, so as to prevent accidental actuations of the switch when the door is open. The delay devices, the locking devices and the clearance-providing devices are of a mechanical type in order to ensure maximum reliability and safety. <IMAGE>

IPC 1-7
H01H 27/00

IPC 8 full level
H01H 27/00 (2006.01)

CPC (source: EP)
H01H 27/002 (2013.01); **H01H 2027/005** (2013.01)

Citation (search report)
• [A] DE 3923663 A1 19910124 - KRONENBERG GMBH H & J [DE]
• [A] DE 4328297 C1 19950223 - EUCHNER & CO [DE]
• [A] US 5464954 A 19951107 - KIMURA HARUO [JP], et al
• [A] US 4904829 A 19900227 - BERTHAUD DENIS [FR], et al

Cited by
WO2015083144A1; CN111489904A; ITVI20130290A1; CN105793947A; ITVI20130291A1; CN105531786A; KR20160096098A; JP2017500724A; WO2015083143A1; US9819342B2

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