Title (en)
ELECTROMAGNETICALLY OPERABLE SWITCHING DEVICE

Publication
EP 0091082 B1 19880817 (DE)

Application
EP 83103136 A 19830330

Priority
• SE 8202209 A 19820406
• SE 8202210 A 19820406

Abstract (en)
[origin: US4496920A] A contactor has a movable contact assembly which is connected to the magnet armature in such a way that the contact assembly moves translatorily in the same direction as the armature between a closed and an open position. The contact assembly comprises a movable main contact with relatively small contact elements of silver alloy and a movable arcing contact with contact elements of silver-free material. The arcing contact makes and breaks the main current, whereas the main contact carries almost the entire current in closed position. The contacts have separate contact pressure springs. The contactor has at least one opening spring which is obliquely directed in relation to the direction of motion of the armature and is clamped between two bearing points, of which one is fixed whereas the other, upon operation of the electric switch, is displaced together with the armature in the same direction of motion. Thereby, the component of the spring force which counteracts the attractive force of the magnet will be reduced upon closing, which means that, despite double contact and spring systems, it is possible to use an operating magnet with relatively small dimensions.

IPC 1-7
H01H 50/54; H01H 50/64

IPC 8 full level
H01H 33/12 (2006.01); **H01H 50/54** (2006.01)

CPC (source: EP US)
H01H 33/12 (2013.01 - EP US); **H01H 50/546** (2013.01 - EP US)

Cited by
US5592505A; DE3819935A1; US8330122B2

Designated contracting state (EPC)
CH DE FR GB LI SE

DOCDB simple family (publication)
EP 0091082 A1 19831012; **EP 0091082 B1 19880817**; DE 3377758 D1 19880922; FI 77746 B 19881230; FI 77746 C 19890410; FI 831141 A0 19830405; FI 831141 L 19831007; US 4496920 A 19850129

DOCDB simple family (application)
EP 83103136 A 19830330; DE 3377758 T 19830330; FI 831141 A 19830405; US 48202083 A 19830404