Title (en)
ELECTROMAGNETIC TRIP DEVICE WITH AN ADJUSTABLE TRIP LEVEL

Publication
EP 0326449 B1 19930929 (FR)

Application
EP 89400092 A 19890112

Priority
FR 8801100 A 19880128

Abstract (en)
[origin: EP0326449A1] The adjusting range for the trip levels of a magnetic trip device with plunger core is increased by providing in the moveable plunger core (20), a throat (56) whose edges (60, 62) define pole surfaces delimiting air-gaps (E2, E3) with the edges of the yoke (10) so as to generate, in the position of minimum adjustment, a force (F2) adding to the force of attraction (F1) of the plunger core (20) by the stationary core (18), and conversely a force (F3) in the position of maximum adjustment subtracting from the force (F1) of attraction of the moveable plunger core (20). The trip device excitation coil is offset relative to the yoke (10) so as to enhance the magnitude of the adjustment range, and a return device with adjustable stop and with return force which decreases as a function of the approaching of the moveable core (20) and of the stationary core (18), contributes to enhancing this adjustment range for the trip levels. <IMAGE>

IPC 1-7
H01H 71/74

IPC 8 full level
H01H 3/28 (2006.01); **H01H 33/38** (2006.01); **H01H 71/24** (2006.01); **H01H 71/74** (2006.01)

CPC (source: EP US)
H01H 71/2454 (2013.01 - EP US); **H01H 71/7463** (2013.01 - EP US); H01H 71/2463 (2013.01 - EP US)

Cited by
CN110739191A; EP1258897A1; CN103617929A; FR2958447A1; US6930575B2; US6300853B1; WO0010187A1; WO03054898A1

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