

Title (en)

ELECTROMAGNET WITH MOBILE EQUIPMENT HAVING A PERMANENT MAGNET, PARTICULARLY FOR A CONTACTOR

Publication

EP 0026695 B1 19831130 (FR)

Application

EP 80401323 A 19800917

Priority

FR 7924147 A 19790928

Abstract (en)

[origin: ES8105887A1] A moving system constituted by a permanent magnet and pole-pieces is accurately guided in axial translational motion within the coil unit of an electromagnet and enclosed within a coil form member, the axis of magnetization being perpendicular to the axis of the coil unit. Air-gap zones are located at both ends of the coil unit and a stationary yoke surrounds the two ends of the coil. Flat portions of the yoke which are parallel to the axis of magnetization each penetrate respectively into one air-gap zone so as to ensure that, at least in one stable position of the moving system, a flat portion of the yoke is in contact with one of the pole-pieces while the other flat portion is in contact with the other pole-piece. Better magnetic coupling between the coil, the air-gaps and the permanent magnet as well as higher operating efficiency are achieved.

IPC 1-7

H01F 7/16; **H01H 51/00**; **H01H 51/22**

IPC 8 full level

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CPC (source: EP US)

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Cited by

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EP 0026695 A1 19810408; **EP 0026695 B1 19831130**; AT E5498 T1 19831215; BR 8006178 A 19810407; CA 1136178 A 19821123; DE 3065779 D1 19840105; ES 495186 A0 19810601; ES 8105887 A1 19810601; FR 2466844 A1 19810410; FR 2466844 B1 19831110; IE 50795 B1 19860723; IE 802007 L 19810328; JP S5656607 A 19810518; JP S5937842 B2 19840912; SU 1039452 A3 19830830; US 4316167 A 19820216

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