

Title (en)
ELECTRO-MAGNET WITH CONCENTRIC TOROIDAL WINDINGS

Publication
EP 0228964 B1 19901107 (FR)

Application
EP 86402884 A 19861222

Priority
FR 8519564 A 19851230

Abstract (en)
[origin: EP0228964A1] Fast-acting electromagnet comprising two concentric toroidal windings (11 and 12) whose working faces are substantially coplanar and which are arranged in housings in the yoke (5) of a magnetic circuit whose non-laminated moving element (16) can move parallel to the axis of the windings (11 and 12), the face (5a) of the yoke (5) situated on the air-gap side having a truncated conical cavity, and the moving element (16) having, on the air-gap side, a truncated conical face (16a) complementary to that (5a) of the yoke (5). The face (16b) of the moving element (16) opposite the yoke has the shape of a cavity (16c) tiered in such a way that the volumes of this element which are traversed by the magnet flux, have, for each winding, trapezoidal axial cross-sections. <IMAGE>

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H01F 7/08

IPC 8 full level
H01F 7/06 (2006.01); **H01F 7/08** (2006.01)

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