

Title (en)
Electromagnetic actuator.

Title (de)
Elektromagnetische Betätigungsvorrichtung.

Title (fr)
Dispositif d'actionnement électromagnétique.

Publication
EP 0094753 A1 19831123 (EN)

Application
EP 83302422 A 19830428

Priority
GB 8213734 A 19820512

Abstract (en)
An electromagnetic actuator comprises a yoke (18) of a material having a low magnetic remanence, and a rare earth permanent magnet (24) in series with said yoke (18), providing a magnetic circuit having no flux gap. A coil (28) can induce in the yoke (18) a flux which is opposed to that from the permanent magnet (24), and an armature (26) which is responsive to the combined flux from said permanent magnet (24) and said coil (28).

IPC 1-7
H01H 51/22; **H01H 51/00**; **H01F 7/14**

IPC 8 full level
H01F 7/14 (2006.01); **H01H 51/01** (2006.01); **H01H 51/22** (2006.01)

CPC (source: EP)
H01F 7/14 (2013.01); **H01H 51/01** (2013.01); **H01H 51/2281** (2013.01)

Citation (search report)

- [P] US 4339734 A 19820713 - MINKS WERNER
- [A] US 1956279 A 19340424 - GODSEY JR FRANK W
- [A] DE 2014247 A1 19701008
- [AD] GB 1195629 A 19700617 - AMERICAN MACH & FOUNDRY [US]
- [A] US 3599133 A 19710810 - RICHERT WALTER J
- [A] US 2491098 A 19491213 - FIELD OSCAR S
- [A] GB 1038862 A 19660810 - ENGLISH ELECTRIC CO LTD
- [A] GB 317149 A 19290815 - SIEMENS BROTHERS & CO LTD, et al
- [A] US 2486086 A 19491025 - WILLING JOSEPH E, et al

Cited by
DE102004018791A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0094753 A1 19831123

DOCDB simple family (application)
EP 83302422 A 19830428