

Title (en)

Electromagnetic relay with reduced switching noise

Title (de)

Elektromagnetisches Relais mit verringertem Schaltrauschen

Title (fr)

Relais électromagnétique à faible bruit de commutation

Publication

EP 1684319 A1 20060726 (EN)

Application

EP 05398001 A 20050125

Priority

EP 05398001 A 20050125

Abstract (en)

The present invention refers to a magnetic system for an electromagnetic relay, to an electromagnetic relay and to a method for manufacturing same. In particular, the present invention concerns a magnetic system for an electromagnetic relay, wherein said magnetic system comprises a magnetic coil for generating a magnetic field to actuate an armature and a movable contact and wherein said armature is pivotally supported in a bearing. In order to provide an electromagnetic relay which is particularly uncomplicated and cost effective to fabricate and which exhibits a reduced switching noise, a damping material (122) is disposed at the armature (104) in a region of said bearing (115) for providing a damping (122) of the armature's movement.

IPC 8 full level

H01H 50/30 (2006.01)

CPC (source: EP)

H01H 50/305 (2013.01); **H01H 2009/0278** (2013.01)

Citation (search report)

- [A] FR 1232105 A 19601005 - RAU SWF AUTOZUBEHOER
- [A] US 2002014936 A1 20020207 - BREITLOW-HERTZFELDT JUERGEN [DE], et al
- [XA] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 07 31 July 1996 (1996-07-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 02 5 February 2003 (2003-02-05)

Cited by

WO2013178898A1; EP2752859A1; FR2991497A1; FR2926665A1

Designated contracting state (EPC)

DE FR GB IT PT

DOCDB simple family (publication)

EP 1684319 A1 20060726

DOCDB simple family (application)

EP 05398001 A 20050125