

Title (en)

Valve drive with electromagnets and permanent magnets

Title (de)

Elektrischer Ventiltrieb mit Elektro- und Permanentmagneten

Title (fr)

Commande de soupapes avec électro-aimants et aimants permanents

Publication

EP 1479880 B1 20080820 (DE)

Application

EP 04009654 A 20040422

Priority

DE 10322881 A 20030521

Abstract (en)

[origin: EP1479880A2] First (2) and second (3) electromagnets each have a yoke (7) fitted with a coil (13). Feeding current to the coil of the first electromagnet creates a magnetic field (MF) to pull an armature towards a first final position. Feeding current to the coil of the second electromagnet creates an MF to pull the armature in an opposite direction towards a second final position.

IPC 8 full level

F01L 9/04 (2006.01); **H01F 7/128** (2006.01); **H01F 7/16** (2006.01); **H01F 7/122** (2006.01)

CPC (source: EP)

H01F 7/1646 (2013.01); **F01L 2009/2148** (2021.01); **H01F 7/122** (2013.01); **H01F 2007/1692** (2013.01)

Cited by

CN109817408A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1479880 A2 20041124; **EP 1479880 A3 20060524**; **EP 1479880 B1 20080820**; DE 10322881 A1 20041216; DE 502004007871 D1 20081002

DOCDB simple family (application)

EP 04009654 A 20040422; DE 10322881 A 20030521; DE 502004007871 T 20040422