

Title (en)
ELECTROMAGNETIC CAMSHAFT ADJUSTER

Title (de)
ELEKTROMAGNETISCHE NOCKENWELLENVERSTELLEINRICHTUNG

Title (fr)
SYSTÈME DE DÉPHASAGE D'ARBRE À CAMES ÉLECTROMAGNÉTIQUE

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Application
EP 15732276 A 20150630

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Abstract (en)
[origin: WO2016001254A1] The invention relates to an electromagnetic camshaft adjuster (10) comprising: an armature unit (40) which can be moved relative to a pole core (30) when a stationary coil unit (20) is energized and which has an armature plunger (44); and a permanent magnet unit (60) by means of which the armature unit (40) is held in a rest position when the coil unit (20) is not energized; and a spring element (70) between the pole core (30) and the armature unit (40) to force the armature unit (40) axially away from the pole core (30), the spring force of the spring element (70) being chosen smaller than the holding force of the permanent magnet unit (60) when the coil unit (20) is not energized. The invention is characterized by the following features: - the permanent magnet unit (60) is stationarily arranged between a housing cover (12) and the pole core (30), the armature plunger (44) is rotationally arranged, and the spring element (70) is supported on a part of the armature unit (40) which is rotationally fixedly mounted. The advantage: fast switching.

IPC 8 full level
H01F 7/06 (2006.01)

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