

Title (en)

Starter relay for a starting device

Title (de)

Starterrelais für eine Startvorrichtung

Title (fr)

Relais de démarrage pour un dispositif de démarrage

Publication

EP 2677161 B1 20191030 (DE)

Application

EP 13168772 A 20130522

Priority

DE 102012210517 A 20120621

Abstract (en)

[origin: EP2677161A2] The electromagnetic starter relay (6) has a reciprocating armature (8) and a pull-in winding (7), to which a current is applied. A switch-on device (16) switches on an electric starter motor. The current is applied to an additional winding that acts on an axially adjustable switching armature (23) of the switch-on device as a switching winding (15). The reciprocating armature is acted on by a reciprocating armature return spring (20) that is supported against the switching armature. A separating web (22) is produced from a magnetically permeable material. An independent claim is included for a method for operating a starting apparatus for an internal combustion engine.

IPC 8 full level

F02N 11/08 (2006.01); **F02N 15/06** (2006.01)

CPC (source: EP US)

F02N 11/087 (2013.01 - EP US); **F02N 15/067** (2013.01 - EP US); **H01H 50/00** (2013.01 - US)

Cited by

EP3617494A1; CN110867345A; US11495426B2

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 13168772 A 20130522; CN 201310248219 A 20130618; DE 102012210517 A 20120621; HU E13168772 A 20130522; US 201313924229 A 20130621