

Title (en)  
ELECTROMAGNETIC RELAY, MORE PARTICULARLY STARTER RELAY, AND METHOD FOR ACTUATING A STARTER DEVICE HAVING A STARTER RELAY

Title (de)  
ELEKTROMAGNETISCHES RELAIS, INSBESONDERE STARTERRELAIS, SOWIE VERFAHREN ZUM BETÄTIGEN EINER STARTVORRICHTUNG MIT EINEM STARTERRELAIS

Title (fr)  
RELAIS ÉLECTROMAGNÉTIQUE, EN PARTICULIER RELAIS DE DÉMARREUR, AINSI QUE PROCÉDÉ D'ACTIONNEMENT D'UN DISPOSITIF DE DÉMARRAGE AU MOYEN D'UN RELAIS DE DÉMARREUR

Publication  
**EP 3555455 A1 20191023 (DE)**

Application  
**EP 18702433 A 20180119**

Priority  
• DE 102017200799 A 20170119  
• EP 2018051344 W 20180119

Abstract (en)  
[origin: WO2018134369A1] The invention relates to an electromagnetic starter relay having an armature that is axially adjustably arranged, and having a pull-in winding, a hold-in winding and a switching winding. The hold-in winding is connected in series to the pull-in winding, wherein, in a phase stage of the meshing phase only the pull-in winding can be energised and in a different phase stage both the pull-in winding and the hold-in winding can be energised.

IPC 8 full level  
**F02N 11/08** (2006.01); **F02N 15/04** (2006.01); **F02N 15/06** (2006.01); **H01H 51/06** (2006.01)

CPC (source: EP US)  
**F02N 11/087** (2013.01 - EP US); **F02N 15/046** (2013.01 - US); **F02N 15/067** (2013.01 - EP US); **H01H 47/06** (2013.01 - EP US); **F02N 15/046** (2013.01 - EP); **F02N 2011/0874** (2013.01 - US); **H01H 50/44** (2013.01 - EP); **H01H 51/065** (2013.01 - EP)

Citation (search report)  
See references of WO 2018134369A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102017200799 A1 20180719**; CN 110192024 A 20190830; EP 3555455 A1 20191023; US 2019353129 A1 20191121; WO 2018134369 A1 20180726

DOCDB simple family (application)  
**DE 102017200799 A 20170119**; CN 201880007577 A 20180119; EP 18702433 A 20180119; EP 2018051344 W 20180119; US 201816479367 A 20180119