

Title (en)

RELAY, ESPECIALLY STARTING RELAY FOR INTERNAL COMBUSTION ENGINES, COMPRISING AN ADAPTER

Title (de)

RELAIS, INSBESONDERE STARTRELAIS FÜR BRENNKRAFTMASCHINEN MIT ADAPTER

Title (fr)

RELAIS, EN PARTICULIER RELAIS DE DEMARRAGE POUR MOTEURS A COMBUSTION INTERNE, PRESENTANT UN ADAPTATEUR

Publication

**EP 1642310 B1 20121212 (DE)**

Application

**EP 04738718 A 20040618**

Priority

- DE 2004001268 W 20040618
- DE 10329577 A 20030630

Abstract (en)

[origin: WO2005001867A1] The invention relates to a relay, especially a starting relay (10) for internal combustion engines, the connecting terminals thereof for the switching contact and the excitation winding of the relay being fixed in a switch cover (11) of the relay. The connecting terminal (50) of the excitation winding is embodied as a plug-in connection. The aim of the invention is to reduce the number of different switch covers with a vehicle-specific connection geometry of the excitation winding. To this end, the connection of the excitation winding is embodied as a first part (15) of a plug-in connection, and the second part (18) of said plug-in connection, co-operating with said first part, forms the input of an adapter (17), the output (21a) of said adapter being embodied as a connecting terminal (50) with a vehicle-specific connection geometry.

IPC 8 full level

**H01H 51/06** (2006.01); **H01H 11/00** (2006.01); **H01H 50/04** (2006.01); **H01H 50/14** (2006.01)

CPC (source: EP)

**H01H 11/0031** (2013.01); **H01H 51/065** (2013.01); **H01H 50/048** (2013.01); **H01H 50/14** (2013.01); **H01H 2011/0037** (2013.01); **H01H 2050/046** (2013.01)

Citation (examination)

- EP 0800193 A2 19971008 - DENSO CORP [JP]
- US 3139318 A 19640630 - JOHANN BINDER, et al

Designated contracting state (EPC)

DE HU

DOCDB simple family (publication)

**WO 2005001867 A1 20050106**; BR PI0412148 A 20060822; CN 100521029 C 20090729; CN 1816889 A 20060809; DE 10329577 A1 20050127; EP 1642310 A1 20060405; EP 1642310 B1 20121212

DOCDB simple family (application)

**DE 2004001268 W 20040618**; BR PI0412148 A 20040618; CN 200480018749 A 20040618; DE 10329577 A 20030630; EP 04738718 A 20040618