

Title (en)

CONNECTING DEVICE FOR IGNITION SYSTEMS OF INTERNAL COMBUSTION ENGINES

Title (de)

VERBINDUNGSMITTEL FÜR ZÜNDANLAGEN VON BRENNKRAFTMASCHINEN

Title (fr)

ORGANE DE RACCORDEMENT DE SYSTEMES D'ALLUMAGE DE MOTEURS A COMBUSTION INTERNE

Publication

EP 1440497 B1 20110629 (DE)

Application

EP 02781138 A 20021021

Priority

- DE 0203961 W 20021021
- DE 10152085 A 20011023

Abstract (en)

[origin: WO03038958A1] The invention relates to a connecting device (11) for ignition systems of internal combustion engines (12). The aim of the invention is to make sure that the connecting device (11) is failsafe also under unfavorable operating conditions. According to the invention, the connecting device (11), inter alia, comprises a first connection (13) for an ignition coil (14), a second connection (16) for a spark plug (17) and a protective cap (19) covering said connections (13, 16). The protective cap (19) has a two-layer design, comprising an inner jacket (23) made of an electrically insulating material, and an outer jacket (24) made of an electrically conductive material, connected to a ground potential, and resting directly on the inner jacket (23). Both jackets (23, 24) consist of a resilient material. The connecting device (11) is provided for use in the automotive industry.

IPC 8 full level

F02P 13/00 (2006.01); **H01T 13/04** (2006.01); **H01T 13/05** (2006.01); **H01T 13/06** (2006.01); **H01T 13/44** (2006.01)

CPC (source: EP US)

H01T 13/04 (2013.01 - EP US); **H01T 13/06** (2013.01 - EP US); **H01T 13/44** (2013.01 - EP US)

Citation (examination)

- US 5890473 A 19990406 - HAMMER UWE [DE], et al
- JP S60122279 A 19850629 - NGK SPARK PLUG CO
- US 2987587 A 19610606 - ESTES STANLEY E

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

WO 03038958 A1 20030508; DE 10152085 A1 20030430; EP 1440497 A1 20040728; EP 1440497 B1 20110629; JP 2005507057 A 20050310; JP 4348184 B2 20091021; US 2004065286 A1 20040408; US 6932627 B2 20050823

DOCDB simple family (application)

DE 0203961 W 20021021; DE 10152085 A 20011023; EP 02781138 A 20021021; JP 2003541106 A 20021021; US 43307903 A 20031112