

Title (en)
IGNITION COIL FOR A SPARK IGNITION ENGINE

Title (de)
ZÜNDSPULE FÜR EINEN OTTOMOTOR

Title (fr)
BOBINE D'ALLUMAGE CONCUE POUR UN MOTEUR A ALLUMAGE COMMANDE

Publication
EP 1671338 B1 20070905 (DE)

Application
EP 04766759 A 20040910

Priority
• EP 2004052122 W 20040910
• DE 10344891 A 20030926

Abstract (en)
[origin: WO2005031771A1] The invention relates to an ignition coil (10) for a spark ignition engine comprising a coil core (12) in which a primary magnetic field (Hp) is inducible by means of a primary substantially reel-shaped current-carrying winding (14). The inventive ignition coil (10) comprises a secondary substantially reel-shaped winding (16) in which a power field exciting at least one spark plug (18) can be produced by said primary magnetic field (Hp). A premagnetizing device acts on the coil core (12) in order to generate a bias magnetic field (Hp) which is opposite to the primary magnetic field (Hp). According to said invention, the premagnetizing device is provided with a bias magnetising substantially reel-shaped current-carrying winding (20).

IPC 8 full level
H01F 38/12 (2006.01); **F02P 3/04** (2006.01); **H01F 27/38** (2006.01); **H01F 29/14** (2006.01)

CPC (source: EP US)
F02P 3/04 (2013.01 - EP US); **H01F 27/38** (2013.01 - EP US); **H01F 38/12** (2013.01 - EP US); **H01F 29/14** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
WO 2005031771 A1 20050407; DE 10344891 A1 20050421; DE 502004004900 D1 20071018; EP 1671338 A1 20060621; EP 1671338 B1 20070905; JP 2007507098 A 20070322; US 2007069845 A1 20070329

DOCDB simple family (application)
EP 2004052122 W 20040910; DE 10344891 A 20030926; DE 502004004900 T 20040910; EP 04766759 A 20040910; JP 2006527398 A 20040910; US 57360804 A 20040910