

Title (en)
Ignition Coil

Title (de)
Zündspule

Title (fr)
Bobine d'allumage

Publication
EP 1780737 A1 20070502 (EN)

Application
EP 06270043 A 20060504

Priority
GB 0522000 A 20051028

Abstract (en)
This invention relates to an ignition coil for the engine of a vehicle. The ignition coil comprises a core member (18) having a number of layers wrapped around it. The formation of these layers from the core member outward comprises a secondary support spool (22), a secondary coil (24), a primary support spool (28) and a primary coil (32). Resilient thermal expansion de-coupling means (30) is provided between at least one of the primary and secondary coils (32, 24) and its or their corresponding support spool or spools (28, 22). The thermal expansion de-coupling means (30) allows each layer to expand and contract substantially independently of one another. This reduces the stress exerted on each layer as it is heated/cooled which increases the overall lifetime of the ignition coil.

IPC 8 full level
H01F 38/12 (2006.01); **F02P 13/00** (2006.01); **H01T 13/44** (2006.01); **F02P 3/02** (2006.01); **H01F 27/32** (2006.01)

CPC (source: EP)
F02P 13/00 (2013.01); **H01F 38/12** (2013.01); **H01T 13/44** (2013.01); **F02P 3/02** (2013.01); **H01F 27/323** (2013.01); **H01F 27/327** (2013.01); **H01F 2038/122** (2013.01)

Citation (search report)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1780737 A1 20070502; **EP 1780737 B1 20090107**; AT E420447 T1 20090115; DE 602006004675 D1 20090226; GB 0522000 D0 20051207

DOCDB simple family (application)
EP 06270043 A 20060504; AT 06270043 T 20060504; DE 602006004675 T 20060504; GB 0522000 A 20051028