

Title (en)
IGNITION COIL FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
ZÜNDSPULE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
BOBINE D'ALLUMAGE POUR MOTEUR A COMBUSTION INTERNE

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Application
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Abstract (en)
[origin: WO2005071701A1] The invention relates to an ignition coil for an internal combustion engine. Said ignition coil comprises a primary coil base (2) carrying a primary winding (1) and having an especially cylindrical shape, a low voltage connection area (10) for connecting the primary winding (1) to a low voltage, a secondary winding (3) inductively coupled to the primary winding (1) and disposed on an especially cylindrical secondary coil base (4), for providing a high voltage for the spark plug of the internal combustion engine. The primary coil base (2) and the secondary coil base (4) are mounted concentric to one another. The ignition coil also comprises a high-voltage connection area (5) in which the secondary winding (3) contacts the spark plug. The aim of the invention is to improve the ignition coil of the aforementioned type with respect to its electromagnetic compatibility. For this purpose, an electrically conducting layer (16) which has a substantially cylindrical shape and mechanical damping properties is provided inside an annular space defined by the outer winding of the two windings (1, 3). Said layer is configured as a sandwich structure and consists of at least two partial layers (16a, 16b) with an interposed intermediate layer (17).

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