

Title (en)

Encapsulation of a high frequency resonator for the ignition system of an internal combustion engine

Title (de)

Einkapselung eines Hochfrequenzresonators für das Zündsystem eines Verbrennungsmotors

Title (fr)

Encapsulation d'un résonateur haute fréquence pour le système d'ignition d'un moteur à combustion interne

Publication

**EP 2456027 A1 20120523 (EN)**

Application

**EP 10192210 A 20101123**

Priority

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Abstract (en)

The invention discloses a method to manufacture a high frequency electrical resonator for the ignition system of an internal combustion engine, the method comprising the steps of: providing a coil (50) and a tubular electrically conductive shield (30), manufacturing a tubular encapsulation pre-form (40) having outer and inner dimensions such that the coil (50) freely enters the pre-form (40) which can itself fit inside the shield (30), inserting the pre-form (40) inside the shield (30), placing the coil (50) inside the pre-form (40) and, filling the gap between the coil (50) and the pre-form (40) with a dielectric fluid (60) having a viscosity enabling to entirely fill the gap.

IPC 8 full level

**H01T 13/50** (2006.01); **H01T 21/02** (2006.01)

CPC (source: EP)

**H01T 13/50** (2013.01); **H01T 21/02** (2013.01)

Citation (search report)

- [Y] EP 1662626 A1 20060531 - RENAULT [FR]
- [Y] WO 2010043544 A1 20100422 - DELPHI TECH INC [US], et al

Cited by

CN103726972A; US9698575B2; WO2014056826A1

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