

Title (en)

Method of obtaining a coil with a closed magnetic circuit and a permanent magnet for the ignition of combustion engines.

Title (de)

Verfahren zur Erzeugung einer Spule mit geschlossenem magnetischem Kreis und einem Dauermagnet für die Zündung von Brennkraftmaschinen.

Title (fr)

Procédé d'obtention d'une bobine à circuit magnétique fermé et à aimant permanent pour l'allumage de moteurs à combustion.

Publication

EP 0072266 A1 19830216 (FR)

Application

EP 82401174 A 19820625

Priority

FR 8115259 A 19810806

Abstract (en)

1. Process for obtaining a coil with a closed magnetic circuit and with a permanent magnet for the ignition of internal-combustion engines, the coil comprising a primary winding (1) and a secondary winding (2) surrounding a branch (4b) of the magnetic circuit (3) which consists of sheet-metal strips (4) of different lengths, stacked on one another and folded so as to form a magnetic circuit, in which is arranged a permanent magnet (5), the largest surfaces (S1) of which are greater than the cross-section (S2) of the said circuit which incorporates a metal fastening flange (6) and a half-shell (8) enclosing the magnetic circuit over half its thickness, the flange (6) serving as a shunt circuit for the flux generated by the primary winding (1), characterised in that the magnetic circuit consisting of a single stack of strips (4) is shaped by means of folding, so as to close it on the surfaces (S1) of the permanent magnet (5), after the windings (1 and 2) have been fitted on the branch (4b) round which they are arranged.

Abstract (fr)

Bobine comportant un enroulement primaire (1), un enroulement secondaire (2) un circuit magnétique (3) constitué de bandes (4) empilées les unes sur les autres et pliées de manière à former un circuit magnétique dans lequel est disposé un aimant permanent (5), caractérisé en ce que le circuit magnétique (3) constitué d'un empilage unique de bandes (4) est conformé, par pliage pour sa fermeture sur les surfaces S1 de l'aimant permanent (5) après mise en place des enroulements (1 et 2) sur la branche (4b) autour de laquelle ils sont disposés.

IPC 1-7

H01F 31/00; **H01F 29/14**; **H01F 27/24**

IPC 8 full level

H01F 27/245 (2006.01); **H01F 29/14** (2006.01); **H01F 38/12** (2006.01)

CPC (source: EP)

H01F 27/2455 (2013.01); **H01F 29/146** (2013.01); **H01F 38/12** (2013.01)

Citation (search report)

- [AD] DE 1464202 A1 19690522 - LICENTIA GMBH
- [A] FR 1533644 A 19680719 - LUCAS INDUSTRIES LTD
- [A] US 2236316 A 19410325 - ARNI HELGASON
- [A] FR 1482818 A 19670602 - CSF

Cited by

EP0536811A3; DE3505367A1; US4736179A

Designated contracting state (EPC)

BE DE GB IT

DOCDB simple family (publication)

EP 0072266 A1 19830216; **EP 0072266 B1 19860430**; DE 3270848 D1 19860605; ES 514781 A0 19830501; ES 8306285 A1 19830501; FR 2511184 A1 19830211; FR 2511184 B1 19840629

DOCDB simple family (application)

EP 82401174 A 19820625; DE 3270848 T 19820625; ES 514781 A 19820805; FR 8115259 A 19810806