Title (en)

COIL ASSEMBLY

Title (de)

SPULENANORDNUNG

Title (fr)

ENSEMBLE DE BOBINE

Publication

EP 3507482 A1 20190710 (FR)

Application

EP 17752157 A 20170821

Priority

- FR 1658148 A 20160901
- EP 2017071046 W 20170821

Abstract (en)

[origin: WO2018041656A1] Coil assembly (28) in a fuel injector (10) comprising: - a magnetic core (38); - a winding (40) wound around the core (38), the winding (40) being overmoulded and forming a cylindrical overmoulding (42); and - the overmoulded coil assembly (28) additionally comprising an axial blind hole (50) extending towards the interior of the coil assembly (28) from the first surface (51) to a distal end (52), the blind hole (50) being suitable for housing at least one spring (54, 56) for loading a magnetic armature (30). The coil assembly (28) is provided with a degassing hole (58) passing through the core (38) and the overmoulding (42) from the blind axial hole (50) to an axial outer cylindrical surface (60), the degassing hole (58) being provided in the magnetic core (38) and having a restriction that is arranged in a first section (62) that is proximal to the blind axial hole (50).

IPC 8 full level

F02M 47/02 (2006.01); **F02M 55/00** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)

F02M 47/027 (2013.01 - EP KR US); **F02M 55/002** (2013.01 - EP KR US); **F02M 55/007** (2013.01 - EP KR US); **F02M 63/0017** (2013.01 - EP KR US); F02M 2200/04 (2013.01 - EP KR US); F02M 2200/28 (2013.01 - EP KR US); F02M 2200/31 (2013.01 - EP KR US); F02M 2200/50 (2013.01 - EP KR US); F02M 2200/80 (2013.01 - EP KR US)

Citation (search report)

See references of WO 2018041656A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3055370 A1 20180302; **FR 3055370 B1 20200501**; CN 109790805 A 20190521; CN 109790805 B 20210316; EP 3507482 A1 20190710; EP 3507482 B1 20200722; KR 102337017 B1 20211209; KR 20190041522 A 20190422; US 10995715 B2 20210504; US 2019242344 A1 20190808; WO 2018041656 A1 20180308

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