Title (en)
CDI-PIEZOELECTRIC SYSTEM FOR USE IN SCOOTERS AND MOPEDS

Title (de)
PIEZOELEKTRISCHES CDI-SYSTEM FÜR MOTORROLLER UND MOTORRÄDER

Title (fr)
SYSTÈME D'INJECTION DIRECTE À RAMPE COMMUNE POUR TURBODIESEL (CDI) PIÉZOÉLECTRIQUE POUVANT S'APPLIQUER À DES
SCOOTERS ET À DES CYCLOMOTEURS

Publication
EP 2253831 A4 20110413 (EN)

Application
EP 09703854 A 20090126

Priority
• ES 2009000037 W 20090126
• ES 200800196 A 20080125

Abstract (en)
[origin: EP2253831A1] A feed system with CDI technology with piezoelectric injector is described, similar to those used in the engines of
conventional motor vehicles, designed for use in scooters and mopeds with a cubic capacity of 100 to 400 cc, both single-cylinder and two-cylinder,
wherein the elements and mechanisms that integrate said system are manufactured from a material composed of a reinforced aluminium alloy
compound, having pistons with a pre-chamber, four valves per cylinder, dual intake manifolds and a higher compression ratio, affording advantages
over conventional engines such as increased performance, significant difference in high pressure of the fuel, with variable injection momentum and
pressure, a particularly fine spray of fuel, very moderate fuel consumption, a low environmental pollution index and other similar advantages.

IPC 8 full level
F02M 63/02 (2006.01); **F02M 55/02** (2006.01)

CPC (source: EP ES)
F02M 55/025 (2013.01 - ES); **F02M 63/0225** (2013.01 - EP ES); F02B 61/02 (2013.01 - EP); F02M 37/0047 (2013.01 - EP);
F02M 37/106 (2013.01 - EP); F02M 47/027 (2013.01 - EP); F02M 51/0603 (2013.01 - EP); F02M 55/002 (2013.01 - EP);
F02M 55/025 (2013.01 - EP); F02M 63/0026 (2013.01 - EP)

Citation (search report)
[I] EP 1731731 A2 20061213 - LOPEZ CANO TORIBIO EMILIANO [ES], et al

Cited by
WO2018179583A1; WO2012083459A1; JP2018162770A

Designated contracting state (EPC)
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 SE SI SK TR

DOCDB simple family (publication)
EP 2253831 A1 20101124; **EP 2253831 A4 20110413**; CN 102112727 A 20110629; ES 2328887 A1 20091118; ES 2328887 B1 20100913;
WO 2009092840 A1 20090730

DOCDB simple family (application)
EP 09703854 A 20090126; CN 200980110645 A 20090126; ES 200800196 A 20080125; ES 2009000037 W 20090126