

Title (en)

A nozzle for a fuel injector for internal combustion engines, and method of manufacturing a nozzle

Title (de)

Düse für ein Kraftstoffeinspritzventil für Verbrennungsmotoren und Verfahren zur Herstellung einer Düse

Title (fr)

Buse pour injecteur de carburant pour moteurs à combustion interne et procédé de fabrication de buse

Publication

EP 2365206 A1 20110914 (EN)

Application

EP 10155571 A 20100305

Priority

EP 10155571 A 20100305

Abstract (en)

A nozzle (10) for a fuel injector for internal combustion engines, having a body (12) of corrosion-resistant material with a longitudinal bore (14) closed at its bottom end and having a cylindrical guide surface (16), wherein a plurality of nozzle bores (18) is formed in a lateral wall of the body, and wherein said cylindrical guide surface (16) is formed on either: a wear resistant layer (20) formed on an inner surface (22) of the body (12) of corrosion resistant material, or a tubular sleeve (24) of wear resistant material inserted into said longitudinal bore (14).

IPC 8 full level

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CPC (source: EP KR)

F02M 61/166 (2013.01 - EP KR); **F02M 61/18** (2013.01 - EP KR); **F02M 61/182** (2013.01 - EP KR); **F02M 61/1893** (2013.01 - EP KR)

Citation (applicant)

- EP 0052937 A1 19820602 - B & W DIESEL AS [DK]
- WO 2008071187 A1 20080619 - MAN DIESEL AS [DK], et al
- EP 1549449 A1 20050706 - MAN B & W DIESEL AS [DK]

Citation (search report)

- [YA] WO 9307386 A1 19930415 - MAN B & W DIESEL GMBH [DK]
- [YA] WO 03006821 A1 20030123 - BOSCH GMBH ROBERT [DE], et al
- [YA] EP 0246373 A1 19871125 - MATSUMURA OSAMU
- [YA] DE 10318135 A1 20031106 - DENSO CORP [JP]

Cited by

WO2016173601A1; WO2020181347A1; WO2023073140A1

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