

Title (en)

Fuel injector atomizer for automotive mixture preparation systems

Title (de)

Brennstoffeinspritzerstäuber für Systeme zur Herstellung von Kraftfahrzeug-Antriebsmischungen

Title (fr)

Atomiseur d'injecteur de carburant pour systèmes de préparation de mélange pour automobile

Publication

EP 2028364 A3 20090401 (EN)

Application

EP 08162767 A 20080821

Priority

BR PI0703812 A 20070824

Abstract (en)

[origin: EP2028364A2] The present patent application refers to a double layer fuel injector atomizer for automotive mixture preparation systems, in which the fuel injector can generate a spray pattern, which may be shaped in a desired form to create an appropriate spray momentum without the use of any auxiliary mechanical adaptor on the downstream side of the atomizer.

IPC 8 full level

F02M 61/18 (2006.01)

CPC (source: EP)

F02M 61/1806 (2013.01); **F02M 61/1813** (2013.01)

Citation (search report)

- [A] DE 10021073 A1 20010208 - AISAN IND [JP]
- [A] US 2002063175 A1 20020530 - KITAMURA KOJI [JP], et al
- [A] US 6089476 A 20000718 - SUGIMOTO TOMOJIRO [JP], et al
- [A] GB 400836 A 19331102 - SCHWEIZERISCHE LOKOMOTIV
- [A] DE 19642513 A1 19980416 - BOSCH GMBH ROBERT [DE]
- [A] US 2005224605 A1 20051013 - DINGLE PHILIP J [US]
- [A] US 2007068142 A1 20070329 - ROBEL WADE J [US], et al
- [A] US 2003132322 A1 20030717 - DANTES GUENTER [DE], et al

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2028364 A2 20090225; **EP 2028364 A3 20090401**; **EP 2028364 B1 20120711**; BR PI0703812 A2 20090811; BR PI0703812 B1 20180724; ES 2388946 T3 20121022

DOCDB simple family (application)

EP 08162767 A 20080821; BR PI0703812 A 20070824; ES 08162767 T 20080821