

Title (en)  
Nozzle for fuel injector

Title (de)  
Düsenkopf für eine Brennstoffeinspritzdüse

Title (fr)  
Tête d'aiguille d'injecteur de carburant

Publication  
**EP 1353061 A2 20031015 (DE)**

Application  
**EP 03405171 A 20030312**

Priority  
• EP 03405171 A 20030312  
• EP 02405289 A 20020411

Abstract (en)  
Material for the nozzle head (2) of a fuel injection nozzle (1) of an internal combustion engine, especially a large diesel engine, comprises a chromium-based alloy containing (in wt.%) 0-50 nickel, 0-5 carbon, 0-5 silicon and at least 50 chromium. An Independent claim is also included for a nozzle head for a fuel injection nozzle of an internal combustion engine, especially a large diesel engine comprising a longitudinal hole (20) and a nozzle hole (21) for introducing fuel into a combustion chamber. The transition between the longitudinal hole and the nozzle hole is rounded. Preferred Features: The alloy contains lanthanum, cerium, yttrium, hafnium, scandium and rare earths as reactive elements. The alloy preferably contains (in wt.%) at least 45 nickel, 50-55 chromium, 0-5 carbon, 0-5 silicon and 0-5 reactive element.

Abstract (de)  
Es wird ein Werkstoff für einen Düsenkopf (2) einer Brennstoffeinspritzdüse (1) einer Brennkraftmaschine, insbesondere eines Grossdieselmotors, vorgeschlagen, welcher Werkstoff eine Chrom-Basis-Legierung ist, die abgesehen von üblicherweise auftretenden Verunreinigungen in Gewichtsprozent 0%-50% Nickel (Ni), 0%-5% Kohlenstoff (C), 0%-5% Silizium (Si) und mindestens 50% Chrom (Cr) enthält. Ferner wird ein Düsenkopf (2) vorgeschlagen, der aus einem dereartigen Werkstoff hergestellt ist. <IMAGE>

IPC 1-7  
**F02M 61/16**

IPC 8 full level  
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CPC (source: EP KR)  
**B22F 3/15** (2013.01 - EP); **C22C 1/045** (2013.01 - EP); **C22C 27/06** (2013.01 - EP KR); **F02M 61/166** (2013.01 - EP); **F02M 61/18** (2013.01 - EP); **F02M 61/182** (2013.01 - EP); **B22F 2998/10** (2013.01 - EP); **F02B 3/06** (2013.01 - EP); **F02B 2075/025** (2013.01 - EP); **F02F 2007/0097** (2013.01 - EP)

C-Set (source: EP)  
**B22F 2998/10 + B22F 9/08 + B22F 3/15**

Citation (applicant)  
EP 0529208 A1 19930303 - FUKUDA METAL FOIL POWDER [JP]

Cited by  
EP2000550A1; AT511880A1; AT511880B1; EP2228462A1; KR101534536B1

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