

Title (en)

Material for a valve needle head and needle head from such a material

Title (de)

Werkstoff für einen Düsenkopf und Düsenkopf aus einem solchen Werkstoff

Title (fr)

Matériau pour tête d'aiguille d'injecteur et tête d'aiguille composée de ce matériau

Publication

**EP 1353061 A3 20060531 (DE)**

Application

**EP 03405171 A 20030312**

Priority

- EP 03405171 A 20030312
- EP 02405289 A 20020411

Abstract (en)

[origin: EP1353061A2] 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.

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)

Citation (search report)

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