

Title (en)

A METHOD OF MANUFACTURING A NOZZLE FOR A FUEL VALVE, AND A NOZZLE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER DÜSE FÜR KRAFTSTOFFVENTIL UND DÜSE

Title (fr)

PROCEDE DE FABRICATION D'UN AJUTAGE POUR CLAPET D'ADMISSION DE CARBURANT ET CET AJUTAGE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9524286A1] A nozzle (4) for a fuel valve (1) for an internal combustion engine is manufactured by exposing an isotropic finely grained powder in a form having substantially the desired external nozzle shape to a pressure of at least 800 bar and a temperature of at least 1000 DEG C for at least 1 hour, whereupon a flow passage with a number of nozzle holes (5) is machined in the nozzle blank thus HIP-treated. The nozzle may be HIP-treated from a cobalt-based alloy, such as Stellite 6, or a nickel-based alloy comprising 20-30 % of Cr, 4-8 % of Al and 0.2-0.55 % of C and possibly W, Hf, Nb, Mo, Si, Y and/or Fe in amounts of 1.8 %. The HIP-treated nozzle (4) has a substantially greater fatigue strength and is easy to machine into its final shape.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

See references of WO 9524286A1

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