

Title (en)

Wear resistant sintered alloy, especially for valve seats for internal combustion engines.

Title (de)

Verschleissfeste Sinterlegierung, insbesondere für Ventilsitzringe von Verbrennungskraftmaschinen.

Title (fr)

Alliage fritté résistant à l'usure, notamment pour des sièges de soupapes dans les moteurs à combustion interne.

Publication

**EP 0401482 B1 19940615 (DE)**

Application

**EP 90105398 A 19900322**

Priority

DE 3918875 A 19890609

Abstract (en)

[origin: EP0401482A2] A sintered alloy for, in particular, valve seats for use in internal combustion engines operated both with unleaded and with leaded fuels consists of a martensitic iron alloy as a matrix in which is incorporated 5 to 20 % by weight of hard intermetallic phases, and it has been found that this sintered alloy is wear-resistant and corrosion-resistant in both fuels and has a long life. The starting powder mixture is economical, has good flow and compressibility properties and can be moulded and sintered with good dimensional accuracy and thus used economically in the mass production of the workpieces. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

**C21D 1/18** (2013.01); **C22C 33/0207** (2013.01); **F01L 3/22** (2013.01)

Cited by

FR2698808A1; EP1026272A1; CN103357863A; EP0771938A1; US6641779B2; WO9413846A1; WO02072904A1

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