

Title (en)
HIGH DENSITY TUNGSTEN MATERIAL SINTERED AT LOW TEMPERATURE

Title (de)
HOCHDICHTES, BEI NIEDRIGEN TEMPERATUREN GESINTERTES MATERIAL AUS WOLFRAM

Title (fr)
MATERIAU TUNGSTENE A HAUTE DENSITE FRITTE A BASSE TEMPERATURE

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Application
EP 00953219 A 20000615

Priority
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• FR 9908186 A 19990625

Abstract (en)
[origin: WO0100892A1] The invention concerns a tungsten-based sintered material, with relative mean density higher than 93 % and HV0.3 hardness ≥ 400 . It comprises: tungsten having a purity higher than 99.9 %, an additive consisting of nickel and/or cobalt powder in a mass percentage not more than 0.08 %, an average particle size of tungsten grains of equiaxial shape ranging between 2 and 40 μm and uniformly distributed for a given average size; and uniformly distributed residual porosity with less than 85 % of the population of pores having a unit volume less than 4 μm^3 .

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