

Title (en)

HARD METAL IN PARTICULAR FOR CUTTING STONE, CONCRETE AND ASPHALT

Title (de)

HARTMETALL FUER INSBESONDERE GESTEIN-, BETON- UND ASPHALTSCHNEIDEN

Title (fr)

METAL DUR PERMETTANT DE TAILLER LA ROCHE, LE BETON ET L'ASPHALTE

Publication

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Application

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- DE 10258537 A 20021214
- EP 0307462 W 20030710

Abstract (en)

[origin: WO2004007784A2] The invention relates to a hard metal made from WC for tools for the mechanical working of stone, concrete and asphalt in particular, with 5 to 25 wt. % of binder made from Co or Co and Ni and with a coercivity field strength of up to 30.0 kA/m or whereby the binder is made from at least 5 vol. % of nanoparticles with ordered phases of W, Co and/or C. The hard metal has a magnetic saturation (σ or 4π σ , each in units of microtesla cubic meters per kilogram) depending on the co-proportion (X) in wt. % of the hard metal in a range of $\sigma = 0.11X$ to $\sigma = 0.137X$ or 4π $\sigma = 0.44$ πX to 4π $\sigma = 0.548$ πX .

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