Title (en)

Bore nitride coated micro-milling tool.

Title (de)

Bornitrid-belegter Mikro-fräser.

Title (fr)

Micro-fraise revêtue de nitrure de bore.

Publication

EP 0519267 B1 19950419 (DE)

Application

EP 92109332 A 19920603

Priority

DE 4119872 A 19910617

Abstract (en)

[origin: EP0519267A1] The invention relates to a rotating tool for machining hardened workpieces, preferably made of steel, consisting of a steel, preferably hardened, parent body (1) with a defined working surface (2) which is provided with a coating (6) of superhard material, preferably boron nitride. In order to provide defined cutting edges in a tool of this type for the precision machining of workpieces with a hardness of up to 62 HRC, the working surface (2) is provided with a multiplicity of micro chip grooves (3) which run parallel to one another, are orientated at an acute angle to a tangent applied to the working surface (2) and have a cross-sectional profile with defined cutting edge (4) and defined chip space (5), the entire working surface (2) being provided with a homogeneous coating (6) of the same thickness of superhard material, preferably boron nitride. <IMAGE>

IPC 1-7

B24D 5/06

IPC 8 full level

B23F 21/02 (2006.01); **B24D 5/06** (2006.01)

CPC (source: EP US)

B24D 5/06 (2013.01 - EP US); Y10T 407/1904 (2015.01 - EP US); Y10T 407/1948 (2015.01 - EP US); Y10T 407/20 (2015.01 - EP US); Y10T 407/27 (2015.01 - EP US)

Citation (examination)

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DOCDB simple family (publication)

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