

Title (en)

END MILL TOOL WITH A COMPOUND MATERIAL CORE AND A HARD MATERIAL COATING

Title (de)

SCHAFTFRÄSER MIT ZUSAMMENGESTELLTEM MATERIALKERN UND OBERFLÄCHE AUS HARTMATERIAL

Title (fr)

FRAISE A DEUX TAILLES A AXE VERTICAL POSSEDANT UNE AME DE MATERIAUX COMPOSES ET UN REVETEMENT EN MATERIAU DUR

Publication

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Application

**EP 93923695 A 19931013**

Priority

- SE 9300835 W 19931013
- SE 9203024 A 19921015

Abstract (en)

[origin: WO9408745A1] An end mill which both drills and mills has main cutting edges (4) and end cutting edges (5) as well as reinforcing chamfers (6) between these. The end mill consists of a core of high speed steel or tool steel and an over-lying layer made of a hard material with 30-70 % by volume of sub-micron hard constituents in the form of carbides, nitrides and/or carbonitrides of Ti, Zr, Hf, V, Nb, Ta, Cr, Mo and/or W in a metallic matrix based on Fe, Co and/or Ni, whereby the external surface of the overlying layer at least partly is coated with a thin layer of TiN, Ti(C,N) and/or (Ti,Al)N. The tool's pitch angle is 40 +/- 5 DEG and its rake angle is 12 +/- 5 DEG .

IPC 1-7

**B23C 5/10**

IPC 8 full level

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CPC (source: EP)

**B23C 5/006** (2013.01); **B23C 5/10** (2013.01); **C22C 1/10** (2013.01); **C23C 30/005** (2013.01)

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