

Title (en)

CUTTING TOOLS WITH TWO-SLOPE PROFILE

Title (de)

SCHNEIDWERKZEUG MIT DOPPELT GENEIGTEM PROFIL

Title (fr)

OUTILS DE COUPE A DOUBLE PROFIL D'INCLINAISON

Publication

EP 1527251 B1 20080123 (EN)

Application

EP 03764305 A 20030612

Priority

- US 0318692 W 20030612
- US 39518102 P 20020710
- US 39518202 P 20020710

Abstract (en)

[origin: WO2004007901A1] An abrasive tool insert with diminished residual stresses. In one embodiment, the tool insert is formed from a substrate (312) having an inner face (316) that has a center (318), and annular face which annular face (320) has a periphery (322), with the inner face slopes outwardly and downwardly from the center. In another embodiment, the tool insert is form from a substrate (10) with a support face with an inner support face/table (12), and outer shoulder with a width (14), and a downwardly sloping interface (16) from the support table to the shoulder, which interface has a slope angle. A continuous abrasive layer (8), having a center having a height, a diameter, a periphery having a height, which abrasive layer being in contact with the inner face of the substrate and which periphery forms a cutting edge.

IPC 8 full level

E21B 10/56 (2006.01); **E21B 10/573** (2006.01)

CPC (source: EP)

E21B 10/5735 (2013.01)

Cited by

US9138872B2; US11111728B2; WO2017114678A1

Designated contracting state (EPC)

FR GB

DOCDB simple family (publication)

WO 2004007901 A1 20040122; AU 2003248688 A1 20040202; CN 100374685 C 20080312; CN 1668827 A 20050914; EP 1527251 A1 20050504; EP 1527251 B1 20080123

DOCDB simple family (application)

US 0318692 W 20030612; AU 2003248688 A 20030612; CN 03816313 A 20030612; EP 03764305 A 20030612