

Title (en)
INTEGRAL DRILLING TOOL BIT

Title (de)
SCHNEIDEINSATZ EINES MONOBLOCKBOHRWERKZEUGES

Title (fr)
TAILLANT D'OUTIL DE FORAGE MONOBLOC

Publication
EP 0776409 A1 19970604 (FR)

Application
EP 96922074 A 19960607

Priority
• FR 9600861 W 19960607
• FR 9507240 A 19950616

Abstract (en)
[origin: FR2735522A1] An integral tool bit for drilling a rock formation, including a cemented metal carbide holder (30) attached to the tool and joined, e.g. soldered, to a plate (34) in the form of a cylindrical disc made from polycrystalline diamond particles and having a side wall (40) and a substantially flat free surface (36), said plate (34) being positioned so that the plane of its free flat surface (36) is at an acute angle (α) to the line (N) normal to the surface (25) of the rock formation, and said angle being directed in the same direction as the forward direction (F) of the drill bit so that the plate engages the rock formation with its side wall (40).

IPC 1-7
E21B 10/56

IPC 8 full level
E21B 10/46 (2006.01); **E21B 10/56** (2006.01); **E21B 10/567** (2006.01); **E21B 10/573** (2006.01)

CPC (source: EP US)
E21B 10/567 (2013.01 - EP US); **E21B 10/573** (2013.01 - EP US)

Designated contracting state (EPC)
BE CH DE DK ES FR GB IE IT LI LU MC NL SE

DOCDB simple family (publication)
FR 2735522 A1 19961220; FR 2735522 B1 19970905; AR 002487 A1 19980325; AU 6308196 A 19970115; AU 712588 B2 19991111; CA 2197351 A1 19970103; CA 2197351 C 20071002; CO 4520157 A1 19971015; DE 69609478 D1 20000831; DE 69609478 T2 20020508; EP 0776409 A1 19970604; EP 0776409 B1 20000726; NO 310312 B1 20010618; NO 970687 D0 19970214; NO 970687 L 19970313; RU 2166608 C2 20010510; US 5823277 A 19981020; WO 9700372 A1 19970103

DOCDB simple family (application)
FR 9507240 A 19950616; AR 10316496 A 19960614; AU 6308196 A 19960607; CA 2197351 A 19960607; CO 96031227 A 19960614; DE 69609478 T 19960607; EP 96922074 A 19960607; FR 9600861 W 19960607; NO 970687 A 19970214; RU 97104071 A 19960607; US 79372697 A 19970501