

Title (en)

BIT CONE WITH HARDFACED NOSE

Title (de)

BOHRKEGEL MIT OBERFLÄCHENGEHÄRTETER NASE

Title (fr)

CÔNE DE TRÉPAN AVEC EMBOUT À REVÊTEMENT DUR

Publication

**EP 2318638 A2 20110511 (EN)**

Application

**EP 09807332 A 20090814**

Priority

- US 2009053801 W 20090814
- US 8899108 P 20080814

Abstract (en)

[origin: WO2010019834A2] A drill bit for drilling a wellbore, the drill bit having a cutter which has tungsten carbide inserts and a spear point. The spear point has a neck that joins a smooth portion of the cutter and blades that extend from the neck and converge to an apex. The blades define valleys or spaces between them. A layer of hardfacing is applied to the entire spear point including the interim spaces and the neck.

IPC 8 full level

**E21B 10/42** (2006.01); **E21B 10/46** (2006.01); **E21B 10/50** (2006.01)

CPC (source: EP US)

**E21B 10/16** (2013.01 - EP US); **E21B 10/50** (2013.01 - EP US)

Citation (search report)

See references of WO 2010019834A2

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2010019834 A2 20100218**; **WO 2010019834 A3 20100603**; CA 2733255 A1 20100218; EP 2318638 A2 20110511; US 2010038146 A1 20100218

DOCDB simple family (application)

**US 2009053801 W 20090814**; CA 2733255 A 20090814; EP 09807332 A 20090814; US 54139909 A 20090814