

Title (en)

Drill bit for percussive drilling

Title (de)

Bohrkrone für dreh Schlagendes Bohren von vorzugsweise Gestein, Beton oder dergleichen

Title (fr)

Tête de forage pour forage rotatif avec percussion

Publication

EP 0730082 A3 19980204 (DE)

Application

EP 96102389 A 19960217

Priority

DE 19507487 A 19950303

Abstract (en)

[origin: EP0730082A2] This core bit is esp. suitable for rotary impact drilling of e.g. stone, concrete or similar materials. The thin-walled cylindrical cup bit (106) is open-ended towards the cutting end, and has a radial base (20) extending to the axial shaft (101), where it is attached. The principal original feature is in the unusual profiling of the base. Its radial outer contour follows a curved path, with at least one point of inflection.

IPC 1-7

E21B 10/44

IPC 8 full level

E21B 10/02 (2006.01); **B28D 1/04** (2006.01); **B28D 1/14** (2006.01); **E21B 7/24** (2006.01); **E21B 10/04** (2006.01); **E21B 10/40** (2006.01); **E21B 10/44** (2006.01); **E21B 10/48** (2006.01)

CPC (source: EP US)

B28D 1/041 (2013.01 - EP US); **E21B 7/24** (2013.01 - EP US); **E21B 10/04** (2013.01 - EP US); **E21B 10/445** (2013.01 - EP US); **E21B 10/485** (2013.01 - EP US)

Citation (search report)

- [XA] DE 2913501 A1 19801016 - BOSCH GMBH ROBERT
- [DA] DE 2735368 A1 19790215 - HAWERA PROBST KG HARTMETALL

Cited by

CN105569573A; EP2633931A3; CN105735901A; CN104196460A; CN103538153A; EP2633931A2; DE102012203088A1

Designated contracting state (EPC)

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EP 0730082 A2 19960904; **EP 0730082 A3 19980204**; **EP 0730082 B1 20020529**; DE 19507487 A1 19960905; DE 59609243 D1 20020704; JP 2006096048 A 20060413; JP 3950151 B2 20070725; JP H08260863 A 19961008; US 5791424 A 19980811

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EP 96102389 A 19960217; DE 19507487 A 19950303; DE 59609243 T 19960217; JP 2005311667 A 20051026; JP 4491296 A 19960301; US 61040496 A 19960304