

Title (en)

EXTRUSION TOOL FOR MAKING A DRILL BLANK WITH AT LEAST ONE INTERNAL HELICAL FLUSH BORE

Publication

EP 0288780 A3 19900613 (DE)

Application

EP 88105349 A 19880402

Priority

DE 3714479 A 19870430

Abstract (en)

[origin: US4831859A] An extrusion tool for making a drill bit blank provided with an internal rinsing bore extending helically in a longitudinal direction of the drill bit blank, includes a nozzle having an inner wall defining a throughgoing axial bore through which a malleable material is passed in a direction of extrusion parallel to the tool axis. The axial bore forms an inlet portion and a mold chamber adjoining the inlet portion downstream thereof as viewed in the direction of extrusion. There is further provided a mandrel situated in the inlet portion; a resiliently deformable wire supported by the mandrel and projecting into the mold chamber; and a helical device provided on the inner wall in the mold chamber for twisting the malleable material as it passes through the mold chamber. There is further provided a clamping device having a tightened state for immobilizing the nozzle and the mandrel with respect to one another during extrusion operation. In the loosened state of the clamping device a positional adjustment of the nozzle with respect to the mandrel may be made.

IPC 1-7

B21C 23/14; **B21C 25/00**; **E21B 10/60**

IPC 8 full level

B21C 23/10 (2006.01); **B21C 23/14** (2006.01); **B21C 25/00** (2006.01); **B21C 25/02** (2006.01); **B21C 25/04** (2006.01); **E21B 10/60** (2006.01); **E21B 10/61** (2006.01)

CPC (source: EP US)

B21C 23/10 (2013.01 - EP US); **B21C 23/147** (2013.01 - EP US); **B21C 25/00** (2013.01 - EP US); **E21B 10/61** (2013.01 - EP US)

Citation (search report)

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- [A] US 3605475 A 19710920 - EAKIN GERALD R, et al
- [A] US 2422994 A 19470624 - TAYLOR GEORGE F
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Designated contracting state (EPC)

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