Title (en)

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

Publication

EP 0288780 B1 19911127 (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

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CPC (source: EP US)

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Cited by

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DOCDB simple family (publication)

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