

Title (en)  
Drill bit for percussive drilling

Title (de)  
Bohrkrone für das schlagende Bohren

Title (fr)  
Trépan de forage à percussion

Publication  
**EP 0799966 A2 19971008 (DE)**

Application  
**EP 97104925 A 19970322**

Priority  
• DE 19613140 A 19960402  
• DE 19619194 A 19960511

Abstract (en)  
The drill bit comprises front end cutters, especially hard metal tips, and axially offset mud passages in a drilling disc of the bit. The passages are formed by channels (46) within the disc (36) at spaced (z) from its circumferential surface (42). The bit may have a front end central section, and an adjoining conical ring section, which extends outwards and which slopes towards and merges into the circumferential surface of the disc. The channels (46) can be located at the junction between the central section (40z) and the conical ring section (40k). When the bit has a holder shaft for the disc and, optionally, a stub-like axial initial drilling bit, the holder shaft (16) may be either supported on the disc (36) by an annular collar, in which it is held by tongues, or held in the disc (36) by a toothed or threaded joint.

Abstract (de)  
Bei einer Bohrkrone für das schlagende Horizontalbohren mittels Imlochhammers mit an einer in Vortriebsrichtung weisenden Stirnfläche angeordnetem Kronenbesatz (44) sowie mit in Abstand zur Bohrkronenachse (A) angeordneten Spüldurchgängen an einer Bohrscheibe der Bohrkrone, sind die Spüldurchgänge von Spülkanälen (46) gebildet, die innerhalb der Bohrscheibe (36) in Abstand (z) zu deren Umfangsfläche (42) verlaufen. Stattdessen können die Spülkanäle (46) am Übergang vom Zentralabschnitt (40z) zum Kegelringabschnitt (40k) der Stirnfläche (40) angeordnet sein. <IMAGE>

IPC 1-7  
**E21B 10/38**

IPC 8 full level  
**E21B 10/38** (2006.01); **E21B 10/40** (2006.01); **E21B 17/07** (2006.01)

CPC (source: EP)  
**E21B 10/38** (2013.01); **E21B 10/40** (2013.01); **E21B 17/076** (2013.01)

Cited by  
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Designated contracting state (EPC)  
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