

Title (en)

Ejectable holder for a cutting bit and cutting bit assembly

Title (de)

Abwerfbarer Halter für einen Schneidmeissel und Schneidmeisselanlage

Title (fr)

Porte-outil éjectable pour un trépan et ensemble de trépan de forage

Publication

EP 0997610 A1 20000503 (EN)

Application

EP 99119903 A 19991007

Priority

US 18130598 A 19981028

Abstract (en)

A cutting bit holder for use in conjunction with a base having a central bore defined by a bore wall. The cutting bit holder comprises an axially forward end and an axially rearward end. The holder contains a bit bore adjacent to the axially forward end thereof wherein the bit bore receives the cutting bit. The holder has a shank adjacent to the axially rearward end thereof wherein the central bore of the base receives the shank. A volume is defined between the shank and the bore wall. The shank presents a pressure surface that defines in part the volume. The volume communicates with a source of pressurized fluid so that upon entry of the pressurized fluid into the volume the fluid acts on the pressure surface so as to urge the holder axially forward in the central bore of the base. The shank and the bore together form a key and keyway so that the key engages the keyway so as to correctly position the holder relative to the base and to prevent the holder from rotating relative to the base. <IMAGE>

IPC 1-7

E21C 35/19

IPC 8 full level

E21C 35/19 (2006.01); **E21C 35/18** (2006.01)

CPC (source: EP)

E21C 35/188 (2020.05); **E21C 35/19** (2013.01); **E21C 35/191** (2020.05)

Citation (applicant)

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Citation (third parties)

Third party :

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