

Title (en)
Conical downhole reamer

Title (de)
Konischer Bohrlochräumer

Title (fr)
Alésoir conique pour trou de forage

Publication
EP 1811126 A1 20070725 (EN)

Application
EP 06001057 A 20060118

Priority
EP 06001057 A 20060118

Abstract (en)
The present invention relates to a stabilizer tool to be used in oil well drilling. This drill string tool is typically mounted in the lower part of a drill string and is rotated by adding a rotating force to the drill string from the surface or by actuation of a down hole motor. The rotating drill bit produces a borehole at a diameter equal to the drill bit as the drilling proceeds downward. In many cases, earth formation can be relatively soft or subject or suffers a geometrical change. This change may take place due to absorbing moisture from the drilling mud. In such cases earth formation swells and closes on the drill string, choking the drill string rotary movement and producing potentially damaging torque. The present invention provides a hole reaming tool that has: - A body contains a through bore for passing drilling fluid. - Outside of said body, it has a lower tapered part that holds hard reaming carbide buttons to ream the hole back to size. Above the tapered part is a straight stabilizing part which constrains and holds the drill string steady during the drilling operation.

IPC 8 full level
E21B 17/10 (2006.01); **E21B 10/26** (2006.01)

CPC (source: EP US)
E21B 10/26 (2013.01 - EP US); **E21B 17/10** (2013.01 - EP)

Citation (search report)
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