

Title (en)

Method of determining a drilling parameter of a roller-cone drill bit

Title (de)

Verfahren zur Bestimmung eines Bohrparameters eines Rollenbohrmeissels

Title (fr)

Procédé pour déterminer un paramètre de forage pour un trépan à cônes

Publication

EP 1498574 A2 20050119 (EN)

Application

EP 04025234 A 19990831

Priority

- EP 03021140 A 19990831
- EP 99945375 A 19990831
- US 9846698 P 19980831

Abstract (en)

Disclosed herein is a method for determining a drilling parameter of each one of a plurality of roller cones on a roller cone drill bit during drilling, comprising: calculating, from a geometry of cutting elements on each of the roller cones and an earth formation being drilled by the drill bit, the drilling parameter acting on each of the cutting elements; incrementally rotating the bit and recalculating the drilling parameter acting on each of the cutting elements; repeating the incrementally rotating and recalculating for a selected number of incremental rotations; and combining the drilling parameter acting on the cutting elements on each one of the roller cones.

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