

Title (en)

Optimization of excentre-driven percussion tools with counterweight

Title (de)

Optimierung exzenterschlagüberlagerter gegengewuchteter Werkzeuge

Title (fr)

Optimisation d'outils de percussion avec excentricité et contrepoids

Publication

EP 1138869 A2 20011004 (DE)

Application

EP 00115139 A 20000712

Priority

DE 10002213 A 20000614

Abstract (en)

The method involves changing the rotating direction of an eccentric shaft and/or a tool (8) at one end of the shaft. A counterweight is carried on the shaft. The rate of rotation of the eccentric shaft and/or the tool is regulated and set as well. The shaft and the tool are operated by separate drive units, and constitute a counterbalanced roller bit. An Independent claim is also included for an apparatus for determining and setting the prevailing optimal parameters for drilling, stripping, and slotting of concrete, rock, or minerals by way of roller bits with superposed eccentric percussion action.

Abstract (de)

Optimierung exzenterschlagüberlagerter gegengewuchteter Rollenmeißel zum Abtragen und Schlitzen von Gestein, Mineralien und dgl. <IMAGE>

IPC 1-7

E21B 1/00

IPC 8 full level

E21B 6/00 (2006.01); **E21B 7/24** (2006.01); **E21D 9/10** (2006.01)

CPC (source: EP)

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Cited by

CN110520597A; CN115898398A; CN102758588A; DE10205124C1; US8469458B2; WO2009036781A1; WO2006012907A1

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