

Title (en)
Apparatus for hand drilling.

Title (de)
Vorrichtung zum Bohren von Hand.

Title (fr)
Appareil pour le forage manuel.

Publication
EP 0234066 A1 19870902 (EN)

Application
EP 86300361 A 19860120

Priority
EP 86300361 A 19860120

Abstract (en)
Method and apparatus for hand drilling wherein the reaction torque generated in the hand drill (10) from the workpiece (W) is transferred to a support for the drill (10) and then back into the workpiece (W) to not only divert stress from the operator's body but also to hold the workpiece in fixed position. In one preferred embodiment, the drill support includes a holder (40), means mounting the body of the drill (10) on the holder (40), and an elongated load transfer member (30) on which the holder (40) is mounted for vertical movement therealong. In use, the lower end of the load transfer member (30) is located adjacent the side of the workpiece (W) so that the equal but oppositely directed torques generated in the workpiece (W) and the drill (10) respectively will hold the workpiece (W) fixed against the side of the load transfer member (30) while the torque (reaction) generated in the drill (10) is transferred away from the operator's body to the load transfer member (30) and then into the workpiece (W).

IPC 1-7
B23B 45/14; **B25H 1/00**

IPC 8 full level
B23B 45/14 (2006.01); **B25F 5/02** (2006.01)

CPC (source: EP)
B25F 5/025 (2013.01); **B25F 5/026** (2013.01); **B25F 5/028** (2013.01)

Citation (search report)

- [Y] US 3874810 A 19750401 - RUSSELL WILLIAM D
- [Y] US 4082474 A 19780404 - STIGER DARREL E
- [Y] US 2849900 A 19580902 - HEIDTMAN JR MARTIN C
- [A] US 2990732 A 19610704 - IDE WILLIAM J S
- [A] US 3362447 A 19680109 - ELDER JR WALTER
- [A] US 2997900 A 19610829 - PUGSLEY LAWRENCE E
- [A] WO 8100369 A1 19810219 - BLACK & DECKER INC [US]

Cited by
DE10163684A1; DE10163684B4; DE102007000417A1; EP2020279A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0234066 A1 19870902; **EP 0234066 B1 19891123**; DE 3667034 D1 19891228

DOCDB simple family (application)
EP 86300361 A 19860120; DE 3667034 T 19860120