

Title (en)

Drill hammer with rotation interruption.

Title (de)

Bohrhammer mit Dreharretierung.

Title (fr)

Perceuse à percussion avec interruption de la rotation.

Publication

EP 0221009 A2 19870506 (DE)

Application

EP 86810315 A 19860715

Priority

DE 3538166 A 19851026

Abstract (en)

[origin: US4763733A] A hammer drill can be switched between combined rotary and impact operation and impact operation. An electropneumatic mechanism provides the impact force and includes a guide cylinder with a beveled gear wheel extending around the outside surface of the cylinder. The gear wheel is driven by a drive wheel. A coupling sleeve is mounted on the guide cylinder for rotation with it and is axially displaceable relative to the cylinder between a first position in meshed engagement with the gear wheel and a second position displaced out of meshed engagement. A switching device moves the coupling sleeve between the two positions. In the first position, the coupling sleeve rotates the guide cylinder, while in the second position the guide cylinder is locked against rotation. The switching device includes a control cam engaged within a groove extending in the circumferential direction of the outside surface of the guide cylinder. In the second position of the coupling sleeve, the control cam is moved inwardly relative to the cylinder into one of a plurality of detent openings formed in the base of the groove for locking the guide cylinder so that it does not perform any rotary movement.

Abstract (de)

Der Bohrhammer weist ein mit einem Kegelritzel (8) in Eingriff stehendes Kegelrad (22) auf. Die Uebertragung der Drehbewegung vom Kegelrad (22) auf das Führungsrohr (15) erfolgt über eine axial verschiebbare Kupplungsmuffe (24). Das Verschieben der Kupplungsmuffe (24) erfolgt mittels eines Schaltorgans (25), das einen in eine Nut (24b) der Kupplungsmuffe eingreifenden Steuernocken (25a) aufweist. Bei ausgerückter Kupplungsmuffe (25) kann der Steuernocken (25a) in Rastöffnungen (24c) der Kupplungsmuffe (24) einrücken und somit das Führungsrohr (15) über die Kupplungsmuffe (24) arretieren.

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B25D 16/00

IPC 8 full level

B25D 16/00 (2006.01)

CPC (source: EP US)

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Cited by

CN102248520A; US5614141A; EP0437716A1; EP0612588A1; EP0463416A1; EP0373106A3; DE4009762A1; EP0583710A1; CN106738383A; CN106738384A; CN106808605A; CN106926371A; US9873192B2; WO2008071484A1; WO8911955A1

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DOCDB simple family (application)

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