

Title (en)  
DISENGAGEABLE SCREWDRIVER WITH A LONGITUDINALLY MOVABLE SCREWING SHAFT

Publication  
**EP 0088926 A3 19850529 (DE)**

Application  
**EP 83101910 A 19830226**

Priority  
DE 3209395 A 19820315

Abstract (en)  
[origin: US4458565A] A torque limiting power screwdriver includes a housing in which there is supported for rotation and axial displacement a screwdriver spindle. A transmission transmits power from a motor to the screwdriver spindle. A torque overload coupling and a separating coupling are interposed in the transmission, being operative for interrupting the transmission of torque from the motor to the screwdriver spindle. The separating coupling is coupled and uncoupled in response to axial displacement of the screwdriver spindle between its coupling and uncoupling positions. The axial movement of the spindle is accomplished by a trigger movably mounted on the housing and connected by a Bowden cable or a lever transmission to the spindle. The spindle is connected by an axially movable coupling with an output member, especially with a bevel gear transmission accommodated in an angular head housing portion. A switching trigger is used to energize and de-energize the motor. The trigger and the switching trigger can be combined into a trigger unit, thus making possible one-hand operation. The trigger and switching trigger are so constructed and arranged that they force the succession of energization of the motor and coupling of the separating coupling during the commencement of operation, and the succession of uncoupling the separating coupling and de-energization of the motor during the termination of operation.

IPC 1-7  
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IPC 8 full level  
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CPC (source: EP US)  
**B25B 23/141** (2013.01 - EP US); **B25B 23/147** (2013.01 - EP US)

Citation (search report)  
• FR 2304447 A1 19761015 - ATLAS COPCO AB [SE]  
• DE 1678656 A1 19700806 - BOSCH GMBH ROBERT  
• GB 649317 A 19510124 - KEITH HENRY TOMLINSON  
• FR 2083137 A5 19711210 - DESOUTTER BROTHERS LTD  
• US 3263785 A 19660802 - KROUSE JOHN P, et al  
• FR 2163236 A5 19730720 - BOSCH  
• DE 1159867 B 19631219 - FEIN C & E

Cited by  
CN110315458A

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DE GB SE

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