

Title (en)  
PERCUSSION DRILL.

Title (de)  
BOHRHAMMER.

Title (fr)  
MARTEAU PERFORATEUR.

Publication  
**EP 0552328 B1 19951011 (DE)**

Application  
**EP 92914235 A 19920706**

Priority  
• DE 9200559 W 19920706  
• DE 4215288 A 19920509  
• DE 4122516 A 19910708

Abstract (en)  
[origin: DE4215288A1] A percussion drill (3) has a three-part hammer sleeve (6). A hardened tool holder (8) is secured by axial connectors (24, 25, 28) to a guide tube (7) of unhardened steel. The guide tube (7) also has a locking ring (9) for securing to the drive pinion (12). The locking ring is secured through three rollers (30) to the guide tube (7) providing good torque transmission. The design has the advantage that the whole of the hammer sleeve (6) no longer needs to be hardened, but only the tool holder (8) and the locking ring (9). The guide tube (7) may be of soft steel. The connectors (24, 25, 28) and (30, 31, 32) ensure power transmission over a large area so that the wear on the soft guide tube caused by prior art connecting system is avoided.

IPC 1-7  
**B25D 16/00**; **B25D 17/08**

IPC 8 full level  
**B23B 45/16** (2006.01); **B25D 11/06** (2006.01); **B25D 16/00** (2006.01); **B25D 17/06** (2006.01); **B25D 17/08** (2006.01)

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**B25D 2211/061** (2013.01 - EP US); **B25D 2217/0038** (2013.01 - EP US); **B25D 2217/0042** (2013.01 - EP US);  
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Cited by  
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**DE 4215288 A1 19930114**; DE 59203993 D1 19951116; EP 0552328 A1 19930728; EP 0552328 B1 19951011; US 5373905 A 19941220;  
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