

Title (en)

Device for the vibrationless quick coupling of a working tool shaft to a percussion apparatus

Title (de)

Einrichtung zur vibrationslosen Schnellkupplung eines Arbeitswerkzeugschaftes an eine Schlagvorrichtung

Title (fr)

Dispositif antivibratile d'accouplement rapide de la queue d'un outil de travail a un appareil à percussion

Publication

**EP 0718076 B1 20011017 (FR)**

Application

**EP 95440091 A 19951221**

Priority

FR 9415732 A 19941223

Abstract (en)

[origin: EP0718076A1] The rapid anti-vibration coupling for an impact tool comprises a cylindrical shaped connector (1) which extends the body (10') of an impact tool (1') towards the front. The tool has three angularly spaced longitudinal grooves (10) in which a roller (2) with a spindle (20) can be displaced. The spindle ends can roll or slide on the edges (100) of the groove. A ring (3) slipped onto the connector displaces along it and is returned rearwards against the rollers by a spring (4). The ring, with an internal annular projection (30), whose front face is plane and rear face concave partially envelops the rollers. The ring is displaced frontwards by a collar (5) which surrounds the assembly and which has on its internal wall an annular rib. The collar internal wall has in the rear an annular projection, a helicoidal rib having along the whole of its length a groove in which a pin in the connector can slide when the collar is turned to move it forward. The simply made and cheap coupling improves the user comfort of an impact tool.

IPC 1-7

**B25D 17/08**

IPC 8 full level

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CPC (source: EP US)

**B25D 17/08** (2013.01 - EP US); **Y10S 403/04** (2013.01 - EP US); **Y10T 403/59** (2015.01 - EP US); **Y10T 403/599** (2015.01 - EP US)

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