Title (en)

ROTARY PERCUSSION MECHANISM

Title (de)

DREHSCHLAGWERK

Title (fr)

MÉCANISME ROTOPERCUTANT

Publication

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Application

EP 08708789 A 20080207

Priority

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- DE 102007014757 A 20070328

Abstract (en)

[origin: WO2008116691A1] The invention relates to a rotary percussion mechanism (1) for an electric tool, having a drivable rotary percussion weight (3) with at least one hammer surface (15), and having an anvil (16) that can be rotated with the rotary percussion weight (3) about a common rotational axis (13) and is operatively connected to a tool shaft (2) to transmit torque, said anvil having at least one anvil surface (16). Said rotary percussion mechanism also has a displacement mechanism comprising a return spring (9), said mechanism being designed to cause a combined relative motion in the axial and circumferential directions under tension of the return spring (9) between the rotary percussion weight (3) and the anvil (10), resulting in a percussion effect of the hammer surface (15) on the anvil surface (16) in the circumferential direction, when the tool shaft (2) demands increased torque. According to the invention, the tool shaft (2) is axially displaceably supported, and the anvil surface (16) and/or the hammer surface (15) is/are aligned and/or designed such that a percussion of the hammer surface (15) on the anvil surface (16) results in a displacement of the tool shaft (2) in the axial direction, in addition to a rotary impulse on the tool shaft (2) in the circumferential direction.

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