

Title (en)
DEMOLITION HAMMER AND/OR HAMMER DRILL WITH A PERCUSSION DEVICE SUITABLE FOR FREELY STRIKING CLAMPED OBJECTS

Title (de)
SCHLAG- UND/ODER BOHRHAMMER MIT EINER ZUM FREISCHLAGEN FESTGEKLEMMTER GEGENSTÄNDE GEEIGNETEN
SCHLAGVORRICHTUNG

Title (fr)
MARTEAU DE DEMOLITION ET/OU MARTEAU PERFORATEUR COMPRENANT UN DISPOSITIF DE PERCUSSION CONCU POUR LIBERER
PAR PERCUSSION DES OBJETS BLOQUES

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Application
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Abstract (en)
[origin: WO02092292A1] The invention relates to a demolition hammer and/or hammer drill comprising a percussion generating device having a percussion piston moving axially back and forth. In a main percussion mode, the percussion piston impinges upon a tool (18) which can move along a limited axial path straight into a main percussion direction. In a free percussion mode, said percussion piston indirectly impinges upon a percussion changing device (54), and by means thereof upon the tool (18), in a free percussion direction opposite to the main percussion direction. The impact surface of a tool shaft (16) and the impact surface of a free percussion ram (38) are placed opposite an impact surface of the percussion piston in such a way that the free percussion ram (38) is removed from the effective area of the percussion piston by a return spring (74) in the main percussion position. Under the effect of the return spring (74), said percussion ram is simultaneously supported on a gear member (64) of the percussion changing device (54), which projects with an extension (72) into the motion path of a stop surface (30) provided in the tool (18). The stop surface (30) reaches the extension (72) when it has moved away from the effective area of the percussion piston in an idle running state of the tool shaft (16). If said movement of the tool (18) is continued, the stop surface (30) impinges upon the gear member (64) against the effect of the return spring (74) and relocates the free percussion ram (38) in the effective area of the percussion piston by overcoming the spring force.

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