

Title (en)  
PNEUMATIC PISTON PERCUSSIVE MECHANISM WITH A HOLLOW PERCUSSION PISTON

Title (de)  
LUFTFEDERSCHLAGWERK MIT HOHLEM SCHLAGKOLBEN

Title (fr)  
OUTIL DE PERCUSSION PNEUMATIQUE A PISTON FRAPPEUR CREUX

Publication  
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Application  
**EP 00942113 A 20000621**

Priority  
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Abstract (en)  
[origin: DE19929183A1] The invention relates to a pneumatic piston percussive mechanism for a percussion drill and/or a drill hammer. The inventive mechanism comprises, housed in the housing (2) of the percussive mechanism, an axially reciprocating percussion piston (3). A drive piston (4) is axially reciprocated in a guide cylinder (8) of said percussion piston (3). Said guide cylinder (8) is provided on its inner face with one or more air compensation pockets (7). At least one idle opening (12) extends through the guide cylinder (8). In the percussive action, the idle opening (12) does not communicate with the ambience while in the idle mode the idle opening (12) can be displaced via an idle channel (13) that leads to the ambience and thus connects a cavity (6) that receives a pneumatic piston with the ambience by way of the idle opening (12). The air compensation pockets (7) and the idle openings (12) allow an optimization of the piston return behavior and of the idle operation of the percussive mechanism.

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