

Title (en)  
LINEAR ACTUATOR FOR AN ELECTRIC PERCUSSION TOOL

Title (de)  
LINEARAKTOR FUR EIN ELEKTRO-SCHLAGWERKZEUG

Title (fr)  
ACTIONNEUR LINEAIRE POUR UN OUTIL DE PERCUSSION ELECTRIQUE

Publication  
**EP 1869753 A1 20071226 (DE)**

Application  
**EP 06723929 A 20060331**

Priority  
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Abstract (en)  
[origin: WO2006108524A1] The invention relates to a linear actuator in an electric percussion tool, provided with an armature and a stator. The armature comprises at least two permanent magnetic bars, arranged in a stack one above the other at a given separation from each other, the stator is embodied at least partly from a soft-magnetic material and comprises at least two pairs of teeth with opposing teeth, each tooth pair of which accommodates one of the two stacks between them with formation of an air gap, whereby the stator comprises at least two magnetically-conducting inner regions between both stacks, arranged at a given separation from each other in the direction of movement of the armature and each at least partly enclosed by an essentially hollow cylindrical coil arrangement, the longitudinal mid-axis of which is oriented roughly perpendicular to the direction of movement of the armature and the armature comprises a drive body which can transmit a mechanical impulse to a tool of the electric percussion tool.

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