

Title (en)  
PNEUMATIC SPRING PERCUSSION MECHANISM WITH AN AIR SUPPLY

Title (de)  
LUFTFEDER-SCHLAGWERK MIT LUFTAUFLADUNG

Title (fr)  
MECANISME DE PERCUSSION A RESSORT PNEUMATIQUE AVEC SURALIMENTATION EN AIR

Publication  
**EP 0993355 A1 20000419 (DE)**

Application  
**EP 98928266 A 19980514**

Priority  
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Abstract (en)  
[origin: DE19728729A1] A double action pneumatic spring percussion mechanism has an air supply mechanism. A percussion piston (13) is movable within a driving piston (11). In an air-supply position, ambient air is supplied through an air inlet (20) to a front pneumatic spring (15). When the percussion piston (13) and driving piston (11) are moved accordingly relative to each other, a loading hole (19) is opened, through which air under increased pressure can flow out of the front pneumatic spring (15) into a rear pneumatic spring (18), ensuring an increase of pressure in the rear pneumatic spring (18). The air pressure increase in both pneumatic springs (15, 18) makes it possible to use the pneumatic spring percussion mechanism even in conditions of operation with a low ambient air pressure.

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