

Title (en)
PNEUMATIC PERCUSSION POWER TOOL WITH PNEUMATIC RETURNING SPRING

Title (de)
LUFTFEDERSCHLAGWERK MIT RÜCKHOLLUFTFEDER

Title (fr)
APPAREIL DE PERCUSSION A COUSSIN D'AIR DE RAPPEL

Publication
EP 1117508 B1 20021016 (DE)

Application
EP 99944386 A 19990813

Priority
• DE 19843642 A 19980923
• EP 9905937 W 19990813

Abstract (en)
[origin: DE19843642A1] A pneumatic percussion power tool has a percussion tool housing (1), in which a drive piston (2) and a percussion piston (9) are movable in axial direction. The motion of the drive piston (2) generated by a crank mechanism is transmitted to the percussion piston (9) through a pneumatic spring in a first chamber (10), said piston cyclically striking a ram (11) or a tool. The backward motion of the percussion piston (9) rebounding from the ram (11) is supported by increasing air pressure in a third chamber (15) that is supplied with air by the drive piston (2) through a second chamber (14) and a communicating channel (13).

IPC 1-7
B25D 11/00; **B25D 17/00**

IPC 8 full level
B25D 9/04 (2006.01); **B25D 9/14** (2006.01); **B25D 11/00** (2006.01); **B25D 17/00** (2006.01)

CPC (source: EP US)
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Cited by
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CH DE ES LI SE

DOCDB simple family (publication)
DE 19843642 A1 20000406; **DE 19843642 B4 20040325**; DE 59903113 D1 20021121; EP 1117508 A1 20010725; EP 1117508 B1 20021016; ES 2186403 T3 20030501; JP 2002526275 A 20020820; JP 4518452 B2 20100804; US 6523622 B1 20030225; WO 0016948 A1 20000330

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