

Title (en)  
Handheld machine tool and production method

Title (de)  
Handwerkzeugmaschine und Herstellungsverfahren

Title (fr)  
Machine-outil manuelle et procédé de fabrication

Publication  
**EP 2514569 B1 20150617 (DE)**

Application  
**EP 12157423 A 20120229**

Priority  
DE 102011007660 A 20110419

Abstract (en)  
[origin: EP2514569A1] The hammer drill (1) comprises a motor-driven exciter (12), a guide tube (20) having several punched ventilation openings (23,24), and a piston-shaped striker (13). The piston-shaped striker and the exciter pass through the inside of guide tube, to delimit an air spring in the guide tube. A metal strip (25) is bent to form the guide tube with opposite lengthwise edges joined by one of a seam and a positive fit created by the teeth. The seam is wound helically around the working axis (10) of guide tube. An independent claim is included for manufacturing method of hand-held power tool.

IPC 8 full level  
**B25D 17/06** (2006.01); **B21C 37/08** (2006.01); **B21C 37/15** (2006.01); **B21C 37/30** (2006.01)

CPC (source: EP US)  
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Citation (examination)  
DE 3307482 A1 19831027 - BLACK & DECKER INC [US]

Cited by  
EP3281747A1; EP2669060A1; US9527199B2; US11123853B2; WO2018029025A1

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DOCDB simple family (publication)  
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DE 102011007660 A1 20121025; ES 2546070 T3 20150918; US 2012267138 A1 20121025; US 9969072 B2 20180515

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