

Title (en)

Hand tool machine with pneumatic striking mechanism and method of controlling the same

Title (de)

Handwerkzeugmaschine mit pneumatischem Schlagwerk und Steuerungsverfahren dafür

Title (fr)

Machine-outil manuelle dotée d'une sonnette pneumatique et son procédé de contrôle

Publication

EP 2394793 B1 20191120 (DE)

Application

EP 11164392 A 20110502

Priority

DE 102010029915 A 20100610

Abstract (en)

[origin: EP2394793A1] The tool i.e. hammer drill (1), has a striker (20) i.e. anvil, guidable along an axis (8) parallel to an impact direction (9). A volume of a pneumatic chamber is variable with a movement of the striker along the axis. A valve (50) i.e. non-return valve, is actuatable based on a movement of the striker. The valve is actuatable to open during moving the striker in the impact direction and is actuatable to throttle or close during moving the striker against the impact direction. The valve is openable for an air flow into the chamber and throttled or blocked for the air flow out of the chamber. An independent claim is also included for a method for controlling a machine tool.

IPC 8 full level

B25D 11/00 (2006.01); **B25D 17/06** (2006.01)

CPC (source: EP US)

B25D 11/005 (2013.01 - EP US); **B25D 17/06** (2013.01 - EP US); **B25D 2211/003** (2013.01 - EP US); **B25D 2217/0015** (2013.01 - EP US); **B25D 2250/035** (2013.01 - EP US); **B25D 2250/131** (2013.01 - EP US); **B25D 2250/365** (2013.01 - EP US)

Cited by

EP2857150A1; EP2653269A3; EP2684646A1; CN103538032A; US10058987B2; WO2015049133A1; US10814467B2; US11878401B2; EP2551062B1

Designated contracting state (EPC)

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EP 2394793 A1 20111214; **EP 2394793 B1 20191120**; CN 102275151 A 20111214; CN 102275151 B 20150805; DE 102010029915 A1 20111215; US 2011303429 A1 20111215; US 9044847 B2 20150602

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EP 11164392 A 20110502; CN 201110150336 A 20110607; DE 102010029915 A 20100610; US 201113156592 A 20110609