

Title (en)

Pneumatic knocker and method of operating a pneumatic knocker

Title (de)

Pneumatisch arbeitender Klopfer sowie Verfahren zum Betreiben eines pneumatisch arbeitenden Klopfers

Title (fr)

Dispositif batteur pneumatique ainsi que procédé de fonctionnement d'un dispositif batteur pneumatique

Publication

**EP 1731272 A3 20071114 (DE)**

Application

**EP 06011983 A 20060609**

Priority

- EP 05012390 A 20050609
- EP 06011983 A 20060609

Abstract (en)

[origin: EP1731271A1] The tapper has an impact piston (9) forming a pressure chamber with a compressed air-supply between an impact plate (6) and the piston and another pressure chamber with a compressed air-supply between a cover (15) and the piston. The cover is provided with an opening (19), whose surface is smaller than the cross sectional area of the piston such that the piston seals the opening in an end position that moves away from the plate. An independent claim is also included for a method for operating a pneumatically-operating tapper.

IPC 8 full level

**B25D 9/18** (2006.01); **B65D 88/66** (2006.01)

CPC (source: EP US)

**B25D 9/18** (2013.01 - EP US); **B65D 88/66** (2013.01 - EP US)

Citation (search report)

- [A] US 4070947 A 19780131 - CREWSE JOHN L
- [A] US 3878902 A 19750422 - MATSUO SUSUMU
- [A] US 964875 A 19100719 - NATHORST HARRY JOHAN HJALMAR [SE]
- [A] DE 1728071 A1 19720203 - IRMER & ELZE MASCHINENFABRIK
- [A] GB 191300772 A 19130327 - RAYNER GEORGE HENRY
- [A] EP 1279622 A1 20030129 - KANEKITA CO LTD [JP]
- [A] EP 1442999 A1 20040804 - FINDEVA AG [CH]
- [A] US 4850436 A 19890725 - ONODERA MITSUO [JP]
- [A] US 3365624 A 19680123 - KOMENDERA JEROME B
- [A] DE 188566 C

Designated contracting state (EPC)

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Designated extension state (EPC)

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