

Title (en)

Vibratory apparatus for ejecting items

Title (de)

Vibrationsgerät zum Auswerfen von Gegenständen

Title (fr)

Appareil à vibrations pour l'éjection d'objets

Publication

EP 1661629 B1 20120704 (EN)

Application

EP 05110686 A 20051114

Priority

IT PN20040020 U 20041125

Abstract (en)

[origin: EP1661629A2] A scrap ejector comprises a pneumatic motor imparting a vibratory motion by means of a first piston that is arranged to reciprocatingly slide within a first cavity of an outer body owing to the action of an elastic spring or an adjustable, but substantially constant pneumatic force acting on a side of said piston, and a pulsed pneumatic force acting on the other side thereof. This pulsed force is obtained by applying a pneumatic pressure onto said other side of the piston, while alternately cutting off and re-establishing said second force by means of a valve arrangement based on a second piston adapted to slidably reciprocate within a respective cavity, wherein the opening and closing stroke of this second piston for applying and exhausting the pressure acting upon said first piston is controlled, i.e. actuated in a direct manner in one direction, and in an indirect manner in the opposite direction, by the same reciprocating displacement of said first piston.

IPC 8 full level

B06B 1/18 (2006.01); **B06B 1/04** (2006.01); **F15B 21/12** (2006.01)

CPC (source: EP)

B06B 1/045 (2013.01); **B06B 1/183** (2013.01); **F15B 21/12** (2013.01)

Cited by

CN101758016A; EP4194706A1; IT202100030968A1

Designated contracting state (EPC)

DE ES IT SE

DOCDB simple family (publication)

EP 1661629 A2 20060531; **EP 1661629 A3 20110803**; **EP 1661629 B1 20120704**; ES 2391736 T3 20121129; IT PN20040020 U1 20050225

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