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(54) **Vibratory apparatus for ejecting items**

(57) 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.

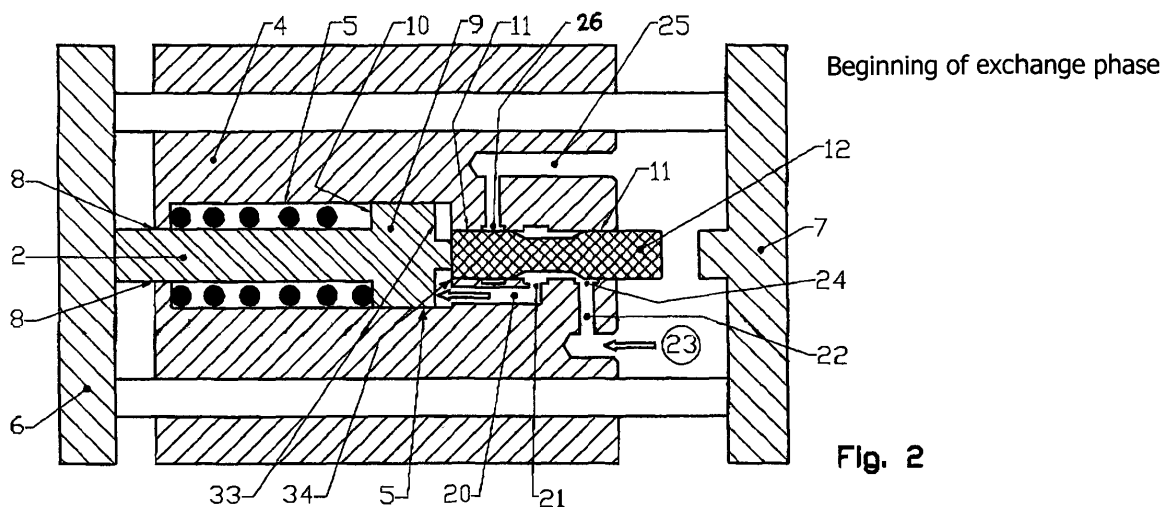


Fig. 2



EUROPEAN SEARCH REPORT

Application Number
EP 05 11 0686

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 22 June 2011	Examiner de Jong, Frank
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

 2
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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