

Title (en)

Apparatus for the pneumatic transport of fibre flocks.

Title (de)

Pneumatische Transportanlage für Faserflocken.

Title (fr)

Dispositif de transport pneumatique de flocons de fibres.

Publication

**EP 0175056 A1 19860326 (DE)**

Application

**EP 85106725 A 19850531**

Priority

CH 411984 A 19840828

Abstract (en)

[origin: US4648754A] An arrangement for pneumatically transporting fiber material flocks through respective chutes to individual carding machines includes a duct which bounds an internal passage that communicates with the chutes, the chutes extending downwardly from the duct. A plurality of control elements is arranged in the passage, respective two of such control elements being situated between each adjacent two of the chutes. Each of the control elements has a substantially plate-shaped control member which is pivotally mounted at the bottom region of the duct, and a block member that extends substantially at a right angle to the control member remotely from the pivot axis and extends toward and into the respective chute. The control element can be pivoted into and arrested in any selected pivoted position, including a closed position in which the block member thereof substantially completely prevents the flow of the transporting medium past the same. The transporting medium carrying the flocks is introduced into either one or into both of the ends of the passage, and the positions of the control elements are so adjusted as to obtain flow speeds upstream of the respective chutes in the range substantially between 2 and 10 m/s; the transporting medium volume can also be adjusted toward this goal. Those of the control elements which are situated between two adjacent chutes may be mounted on a common pivot axle.

Abstract (de)

Vorliegende Erfindung betrifft eine pneumatische Transportanlage für Faserflocken zum Beschicken von Karden oder Krempeln bei einer Querspeisung. Gemäß der Erfindung sind zwischen benachbarten Füllschächten (4 bis 9) je zwei Steuerorgane (12) vorgesehen. Diese gestatten, den Querschnitt des Luftkanals (1) um gewünschte Beträge zu variieren und damit die Flockenzufuhr zu den Schächten (4 bis 9) zu steuern. Die Steuerorgane (12) erlauben einen Betrieb der Transportanlage in der einen und auch in der entgegengesetzten Strömungsrichtung im Kanal (1), und auch ein wahlweises Außerbetriebsetzen einzelner oder mehrerer Karden. Die Steuerorgane (12) gestatten außerdem, den Kanal (1) an jeder gewünschten Stelle einer Reihe von Karden für die Transportluft zu sperren und dem Kanal (1) Faserflocken einer Art am einen Ende und Faserflocken einer anderen Art am anderen Ende zuzuführen.

IPC 1-7

**D01G 23/02**; **D01G 23/08**

IPC 8 full level

**D01G 23/02** (2006.01); **D01G 23/04** (2006.01); **D01G 23/08** (2006.01)

CPC (source: EP US)

**D01G 23/02** (2013.01 - EP US); **D01G 23/08** (2013.01 - EP US); **Y10T 137/87249** (2015.04 - EP US); **Y10T 137/87812** (2015.04 - EP US)

Citation (search report)

- [X] DE 373722 C 19230414 - RIETER JOH JACOB & CIE AG
- [A] DE 2730545 B
- [A] GB 1178484 A 19700121 - FIBER CONTROLS CORP [US]
- [A] DE 488332 C 19291228 - PAUL POLLRICH & CO G M B H

Cited by

US5143485A; EP4303348A1; DE102004060403A1; DE202020101190U1; US7506411B2

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