

Title (en)
Feeding hopper structure for fibre material.

Title (de)
Füllschachthanordnung für Fasermaterial.

Title (fr)
Disposition d'un puits d'alimentation pour matière fibreuse.

Publication
EP 0176668 A1 19860409 (DE)

Application
EP 85108015 A 19850628

Priority
CH 446584 A 19840918

Abstract (en)
[origin: US4878784A] A feed chute arrangement for textile machines, such as carding machines includes a feed chute having a plurality of walls one of which is gas-permeable to let gaseous medium to escape from the interior of the feed chute into a neighboring gas output chamber that is bounded by a plurality of additional walls different from the gas permeable wall. One of these additional walls is provided with an opening at which there is pivotally mounted a plate-shaped blocking flap selectively movable between its closed position and a plurality of open positions in which it offers various amounts of resistance to the flow of the gaseous medium from the gas output chamber through the opening into a connecting conduit and eventually into a discharge passage. Fiber material entrained in the gaseous medium and travelling therewith in a transporting duct enters the interior of the feed chute through an open upper end and deposits in the form of a fiber body at the lower end of the interior of the feed chute to be fed therefrom by a pair of feeding rollers. The gaseous transportation medium leaves the interior of the feed chute through the gas-permeable wall and then flows through the gas output chamber and through the opening. An operating device may be employed to move the blocking flap at least toward and into its closed position. A weight may be movably mounted on a bar extending transversely of the blocking flap to select the torque acting on the latter. The operating device may be controlled by the density of the fiber material passing between the feeding rollers.

Abstract (de)
Die erfindungsgemässe Füllschachthanordnung weist einen Füllschacht (11) und eine von diesem durch eine perforierte Wand (14) getrennte Abluftkammer (13) auf. Die letztere weist in einer ihrer Wände (17), welche nicht die perforierte Wand (14) ist, eine Oeffnung (18) auf, welche einen Durchgang für Transportluft für das Fasermaterial von einem Transportkanal (12) zu einer Abluftleitung (24) bildet. Ueber der Oeffnung (18) befindet sich eine in variable Abdeckpositionen schwenkbare Klappe (20). Die Klappe (20) verschafft die Möglichkeit, das Transportmedium im Füllschacht (11) beliebig regulieren zu können, weil die Klappe (20) in wählbare Luftwiderstände bilende Abdeckpositionen bewegbar ist.

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D01G 23/02

IPC 8 full level
D01G 23/02 (2006.01); **D01G 23/08** (2006.01)

CPC (source: EP US)
D01G 23/02 (2013.01 - EP US)

Citation (search report)
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EP 85108015 A 19850628; DE 3569129 T 19850628; JP 17332985 A 19850808; US 13883587 A 19871228