Title (en)

Feed chute

Title (de)

Füllschacht

Title (fr)

Puits d'alimentation

Publication

EP 0731194 A3 19970716 (DE)

Application

EP 96102559 A 19960221

Priority

CH 66495 A 19950308

Abstract (en)

[origin: EP0731194A2] A valve flap has two wings (76,78) which control two flow openings (72B,72A) respectively. The wings (76,78) swing about an axis (80) so that an increase in the clear passage of the first opening (72B) is accompanied by a restriction of the second opening (72A). Also claimed is a store fed by a pneumatic fibre conveying system which has a valve to remove air and where the pressure varies as a function of fibre level. The valve has a flap which takes up a rest position under its own weight at zero feed rate with a flow passage remaining open. With increasing flow the flap is displaced from its rest position. Also claimed is a pneumatic conveying system with several branches in each of which material is separated from the conveying air and a flap valve (74) is fitted which responds to the air flow. Pref. in the rest position with a full chute (24) only the upper wing (78) provides a gap (S) for a continuous small air flow to exhaust (30). With an empty chute the top opening (72A) is closed off and the bottom wing (76) provides the full lower opening (72B). The valve is proportioned so that it reacts to flow and pressure differential without fluctuations.

IPC 1-7

D01G 23/02

IPC 8 full level

D01G 23/02 (2006.01)

CPC (source: EP US)

D01G 23/02 (2013.01 - EP US); Y10T 137/7848 (2015.04 - EP US); Y10T 137/7903 (2015.04 - EP US)

Citation (search report)

- [YA] US 4520530 A 19850604 - PINTO AKIVA [US]
- [Y] DE 3905139 A1 19900823 - TRUETZSCHLER & CO [DE]
- [A] DE 3229402 A1 19840209 - TRUETZSCHLER & CO [DE]
- [AD] EP 0176668 A1 19860409 - RIETER AG MASCHF [CH]
- [A] DE 729040 C 19421209 - SIEMENS AG
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 267 (C - 443) 28 August 1987 (1987-08-28)

Cited by

DE19752579A1; EP0877105A1; EP0877106A1

Designated contracting state (EPC)

CH DE GB IT LI

DOCDB simple family (publication)

EP 0731194 A2 19960911; **EP 0731194 A3 19970716**; US 5913642 A 19990622

DOCDB simple family (application)

EP 96102559 A 19960221; US 96727797 A 19971107