

Title (en)
REDUCING PRESSURE VALVE

Publication
EP 0123190 B1 19870204 (DE)

Application
EP 84103895 A 19840407

Priority
SE 8302105 A 19830415

Abstract (en)
[origin: US4593478A] A pressure-reducing valve for a dust-entraining gaseous or liquid fluent flow comprises a vertical tube containing a bed of particles which are fluidized by the flow. The particles have considerably greater specific weight than the dust in the flow, so that the particles in the bed are not carried away by the flow. The valve may be used to permit the continuous egress of a dust-contaminated flow from a pressurized container, for example a cyclone, while maintaining the pressure in the container. If the fluent flow is hot, the valve tube may be surrounded by a cooling jacket for extracting heat therefrom. The height of the bed in the tube may be adjusted to and from a particle storage, at the lower and upper ends, respectively, of the tube.

IPC 1-7
F16K 17/00; **F23G 7/00**; **B04C 11/00**

IPC 8 full level
B04C 9/00 (2006.01); **B04C 11/00** (2006.01); **F16K 17/00** (2006.01); **F23C 10/16** (2006.01); **F23G 7/00** (2006.01); **F23J 3/06** (2006.01); **F23J 15/02** (2006.01)

CPC (source: EP US)
B04C 9/00 (2013.01 - EP US); **B04C 11/00** (2013.01 - EP US); **F23C 10/16** (2013.01 - EP US); **F23J 3/06** (2013.01 - EP US); **F23J 15/027** (2013.01 - EP US); **B04C 2009/004** (2013.01 - EP US)

Cited by
EP0313758A1; EP0621068A1; EP0812613A3

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL

DOCDB simple family (publication)
EP 0123190 A1 19841031; **EP 0123190 B1 19870204**; AT E25424 T1 19870215; DE 3462358 D1 19870312; SE 436248 B 19841126; SE 8302105 D0 19830415; SE 8302105 L 19841016; US 4593478 A 19860610

DOCDB simple family (application)
EP 84103895 A 19840407; AT 84103895 T 19840407; DE 3462358 T 19840407; SE 8302105 A 19830415; US 60002484 A 19840413