

Title (en)
Device for aeration by sudden discharge of compressed air.

Title (de)
Belüftungsvorrichtung durch plötzliches Druckluftabladen.

Title (fr)
Dispositif d'aération par décharge brusque d'air comprimé.

Publication
EP 0021999 A1 19810107 (FR)

Application
EP 80400904 A 19800619

Priority
FR 7915704 A 19790619

Abstract (en)
1. Ventilation device by sudden release of compressed air particularly to help the flow of stored materials, of the type comprising a reservoir (10) for storing compressed air provided with an inlet orifice (81) adapted to be connected to a source (4) supplying compressed air via a three-way valve (6), a conduit (9) to discharge the stored compressed air, which conduit extends substantially over the entire length of the reservoir (10) and projects out of said reservoir to issue into an enclosure (100) to be ventilated, and valve means (2) provided on the one hand to first create a communication between the inside of the reservoir (10), excepting said conduit (9), and the orifice (81) supplying the compressed air, and on the other hand, to later close the said inlet orifice (81) and create a communication between the inside of the reservoir (10) and the said discharge conduit (9), said inlet orifice (81) connected to the source supplying the compressed air being in alignment with the said discharge (9), at a distance from the inner end (92) thereof which constitutes a valve seat, characterized in that the valve means (2) comprise at least a flexible membrane (22) interposed between the inner end (92) of the discharge and said inlet orifice (81), capable of alternately closing off only the inner end (92) of the discharge when the compressed air pressure of the supply source is applied on the inlet orifice (81), and the closing off of the inlet orifice (81) only when the compressed air pressure of the supply source (4) is no longer exerted thereon, and in that the said membrane (22) is placed substantially perpendicularly to the axis of the discharge (9) and of the inlet orifice (81) and presents at least one perforation (26) in its part situated between the inner end of the discharge and the part (14) forming the outer wall of the compressed air storage reservoir.

Abstract (fr)
Dispositif d'aération par décharge brusque d'air comprimé, notamment pour faciliter l'écoulement de matières stockées dans une enceinte. Le dispositif comprend un réservoir 10 de stockage d'air comprimé, un conduit d'échappement 9 et un orifice d'admission 81 et des moyens de valve comprenant au moins une membrane flexible 22 interposée entre l'extrémité interne 92 du conduit d'échappement 90 et l'orifice d'entrée 81. La membrane 22 est disposée sensiblement perpendiculairement à l'axe du conduit 90 et de l'orifice 81 et présente au moins une perforation dans sa partie située entre l'extrémité 92 et la partie 14 du réservoir. La membrane 22 formant clapet vient obturer l'extrémité 92 du conduit 90 lors de la charge du réservoir et l'orifice d'entrée 81 lors de la décharge du réservoir.

IPC 1-7
B65D 88/70

IPC 8 full level
B65D 88/70 (2006.01)

CPC (source: EP)
B65D 88/703 (2013.01)

Citation (search report)
FR 2214651 A1 19740819 - MARTIN ENG CO [US]

Cited by
CN104828896A; US4449644A; EP0097236A1; AU580414B2; EP1279622A1; FR2547639A1; EP0134726A1; US4579138A; US5853160A; AU732749B2; US4817821A; FR2518668A1; EP0881417A3; US7273205B2; US6755114B2

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