

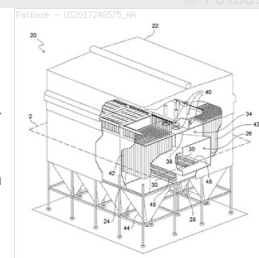
1) Family number: 66771890 (US2017246575A)

FABRIC FILTER LOUVER ASSEMBLY

Abstract: Source: US2017246575A A fabric filter for separating particulate matter from a gas stream includes a filter compartment and an inlet opening for delivering at least a portion of the gas stream to the filter compartment. The fabric filter further includes one or more filter elements within the filter compartment and a louver assembly for providing access for the at least a portion of the gas stream to said filter compartment. The louver assembly has a first louver associated with the inlet opening and movable between a first-louver-first position and a first-louver-second position. The louver assembly has a second louver associated with the inlet opening and movable between a second-louver-first position and a second-louver-second position. The first louver and the second louver are movable independent of each other to facilitate or restrict fluid communication through said opening.

Probable Assignee: BABCOCK AND WILCOX CO

Earliest Publication Date: 20170829



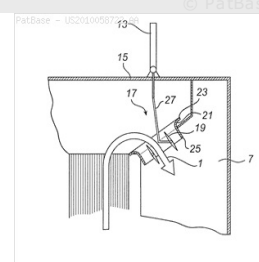
2) Family number: 44517520 (US2010058722A)

FABRIC FILTER SYSTEM

Abstract: Source: US2010058722A The present disclosure relates to a fabric filter system, which may be used for removing particulate matter from a gas, such as a combustion process gas. The filter system includes a fabric filter (3) which is placed in a filter compartment. From the filter, gas flows via a filter plenary space (5) to an outlet duct (7), where the gas exits. A flow control device controls the amount of air exiting through the outlet duct. The flow control device comprises a louver-type damper (17). This provides reliable and efficient control of the gas flow. A collar (21), connecting the plenary space (5) with the outlet duct (7), improves the gas flow into the duct.

Probable Assignee: GENERAL ELECTRIC TECHNOLOGY GMBH

Earliest Publication Date: 20100311



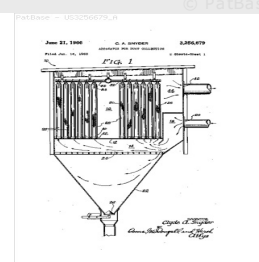
3) Family number: 31377048 (US3256679A)

APPARATUS FOR DUST COLLECTION

Abstract: Source: GB1007726A 1,007,726. Gas filters. BELL INTERCONTINENTAL CORPORATION. Nov. 18, 1963 [Jan. 14, 1963], No. 45436/63. Heading BIT. In a dust collector which includes a plurality of fabric filter tubes 28 mounted vertically between a support 50 at the top and a cell plate 12 at the bottom, the latter being apertured to allow gas to be filtered and introduced through an inlet 20 to enter the filter tubes 28, a nozzle 54 is provided within a short distance from the upper end of each tube 28 for the introduction of a jet of air downwardly into the tube whereby an air bubble is formed, which as it travels down through the tube loosens the filter cake formed on the ingoing side of the filter fabric. The loosened filter cake falls down under gravity through a grating 24 into a hopper 22. Before the cleaning operation, the inflow of gas to be filtered is shut off and each filter tube 28 is then in a semicollapsed condition, the effect of the air jet being, as shown in Fig. 3, to cause the tubes to snap suddenly outwardly to a taut condition and back as the air bubble 58 passes. The air jet may be of a pressure between 40 and 150 p.s.i., preferably between 70 and 100 p.s.i., and last up to $\frac{1}{4}$ second. Preferably a number of jets are used, at intervals of between 1 and 20 seconds. The upper ends of the filter tubes 28 should preferably be open to permit a free flow of air to fill the vacua that would otherwise be created behind the air bubbles. In the absence of such free flow, this air is drawn in by reverse flow through the filter tubes. When it is desired to effect closure of the filter tubes during the filtering cycle only, flapper valves (Fig. 4, not shown) or other suitable valves may be fitted to the upper ends of the tubes.

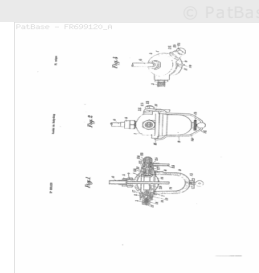
Probable Assignee: WHEELABRATOR CORP

Earliest Publication Date: 19641113



4) Family number: 19169094 (FR699120A)

ROBINET A OUVERTURE ET FERMETURE AUTOMATIQUES VALVE HAS AUTOMATIC OPENING AND CLOSING (MACHINE TRANSLATION)



Abstract: Source: FR699120A [Source: Claim 1] RESUME. L'invention a pour objet un adispositif ob turateur a:clapet commande par la pression ou la depression d'un fluide, pour louver tune et la fermeture automatiques des tuyau teries 'essence, ou de tout autre fluide liquide ou gazeux, pour moteurs, fours, etc., ce dispositif etant remarquable, notamment en ce que a. La pression ou la depression s'exerce a l'interieur ci'un tube manometrique en spi rale de section qtaeiconque:commandant di- rec iement par l'une de ses extremités une tige agissant sur le clapet a.-l'encontre.d'un res sort; b. Le tube manometrique et la soupape,ont disposes dans un corps metallique sous lequel est figee une cuve, un filtre constitue par une toile metallique ou analogue etant disposee entre le corps metallique et la cuve; c. -Un tube:d'amenee -du liquide dans la cuve, en amont @du filtre est dispose -dans l'axe de fappareii et aboutit a un raccord place au centre et a la partie superieure:du corps metallique qui porte ainsi les deux raccords permettant la fixation -dudspositif; d. La cuve est figee par l'intermediaire d'un etrier monte oscillant sur le corpsme- tallique, cet etrier etant muni a sa base,d'uns vis sur laquelle peut se deplacer un eerou susceptible de venir buter contre le fond:de la cuve. [Source: Claim 1] Summary, a subject of the invention is a valve controlled by the adispositif ob turateur a:vacuum or pressure of a fluid, for the automatic closing louver tune and pipe Teries 'gasoline, or any other fluid or gas engine, liquide, ovens, etc., this device being noteworthy, especially in that a. The pressure or the vacuum is exercised within a tube manometrique ci in general section qtaeiconque spi:commander di- rec iement by one of its ends a stem acting on the valve has.- against.a res exits; b. The manometrique tube and the valve,have arranged in a metal shell in which is pinned a tank, a filter formed of a metal fabric or the like disposed between the metal body and the tank; c. -a tube:delivered -the liquid in the tank, upstream of the filter @is disposed in the axis of fappareii -and leads to a fitting place in the center and in the upper portion of the metal shell which thus carries both fittings:allowing the fastening -dudspositif; d. The tank is pinned via a bracket mounted on the body oscillatingme- metal, this yoke being provided at its base, each screw on which can move a eerou likely to come to rest against the bottom of the tank.:

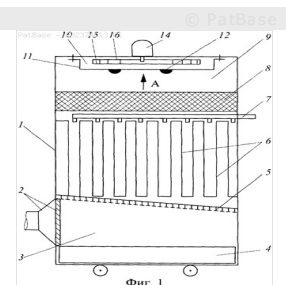
Probable Assignee: ROBY STOP SOC DU

Earliest Publication Date: 19310210

5) Family number: 44242865 (RU2374013C)

INDEPENDENT DUST-AND-GAS EXTRACTOR

Abstract: Source: RU2374013C FIELD: engines and pumps. SUBSTANCE: proposed extractor aims at preventing prevalence of air pollutants. Extractor comprises local suction gun furnished with guide grid and communicated with contaminated air chamber with its bottom accommodating dust collection tank. Louver-type grid and cellular fabric filter with pulsed blowdown are arranged above aforesaid tank. Sorbent and lean air chamber are arranged above the filter. Outlet of clean air chamber accommodates draught generator consisting of scroll casing with collector outlet accommodating two disks. Note here that first, if seen from scroll casing, features orifice with diametre equal to that of collector outlet. Solid second disk is fitted on motor shaft fitted outside aforesaid casing. 24 to 48 blades are arranged between aforesaid disks, bent either forward or backward relative to motor shaft rotational direction. Note also that sorbent is depending upon components of polluted air. EFFECT: controlled output and air pressure at low airflow rates. 2 cl, 2 dwg



Probable Assignee: G OBRAZOVATEL NOE UCHREZHDENIE

Earliest Publication Date: 20091127