April 19, 1932. N. F. HAYS 1,854,738

DIRT COLLECTOR

Filed March 18, 1930

Fig. 1

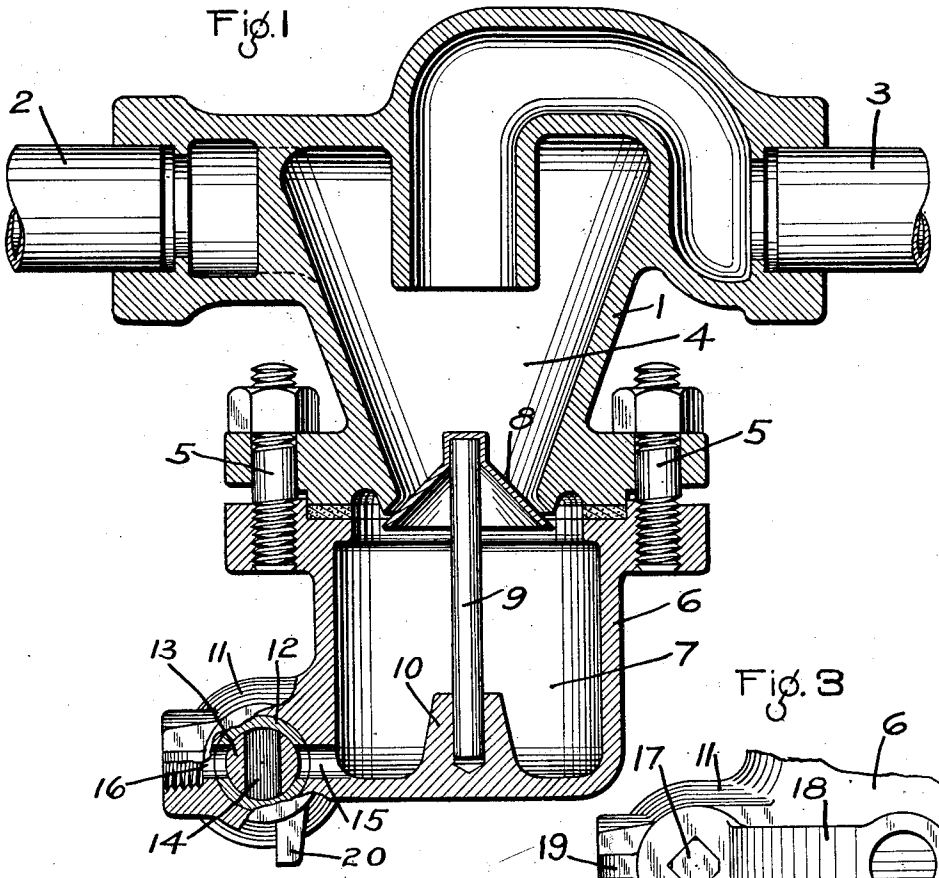


Fig. 3

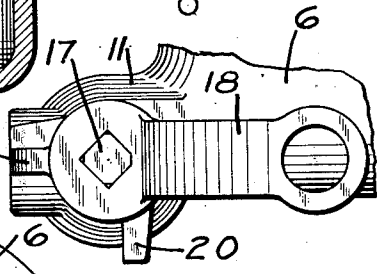
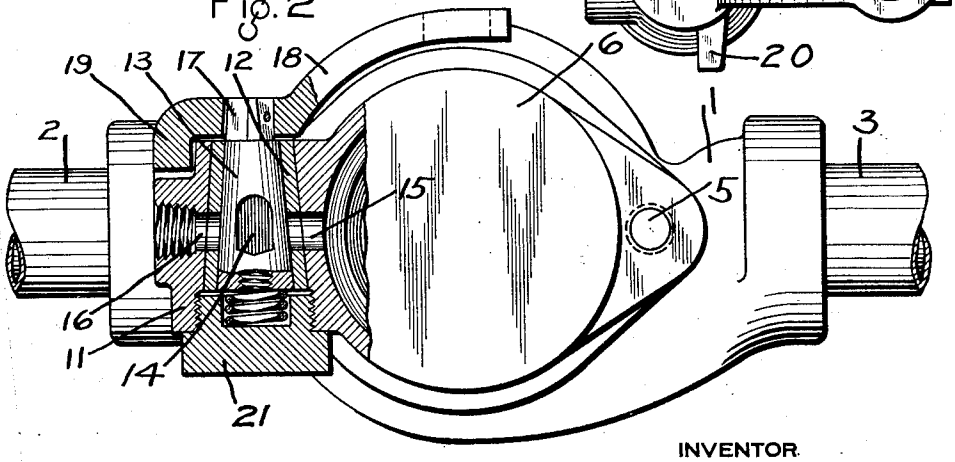


Fig. 2



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Patented Apr. 19, 1932 1,854,738

UNITED STATES PATENT OFFICE

NORA F. HAYS, OF WILMERDING, PENNSYLVANIA, ASSIGNOR TO THE WESTINGHOUSE AIR BRAKE COMPANY, OF WILMERDING, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA

DIRT COLLECTOR

Application filed March 18, 1930. Serial No. 436,745.

This invention relates to dirt collectors of the type employed to remove dirt from fluid under pressure as supplied to a fluid pressure system.

Dirt collectors of the above type are provided with a dirt collecting chamber, in which water as well as dirt is collected from the air flowing through the device.

The principal object of my invention is to provide means for draining off the water which may collect in the dirt collecting chamber of a dirt collector.

In the accompanying drawings; Fig. 1 is a sectional view of a dirt collector showing my invention applied thereto; Fig. 2 an inverted plan view, partly in section, of the dirt collector shown in Fig. 1; and Fig. 3 a fragmentary view, showing the operating handle of the drain cock.

The dirt collector may comprise a casing 1, connected to sections 2 and 3 of a pipe through which fluid under pressure is supplied, said casing having a chamber 4 in which dirt is separated from the fluid flowing through the dirt collector. Secured to the casing 1 by bolts 5, is a casing 6, having a dirt collecting chamber 7. A valve 8 controls communication from chamber 4 to chamber 7, and said valve is supported by a stem 9, which is secured in a lug 10 of the casing 6.

Cast integral with the casing 6 is a boss 11, having a horizontally disposed conical bore in which is fitted a conical bushing 12. In the bushing 12 is disposed a conical plug valve 13, having a port 14. In one position of the valve 13, the port 14 connects a passage 15, leading from chamber 7 adjacent to the bottom wall with a passage 16 opening to the atmosphere.

The valve 13 at one end is provided with a key section 17 to which is applied an operating handle 18. The handle 18 is curved to follow the contour of the casing 6, and is provided with a lug 19 adapted, when the handle is turned to open position, to engage a stop lug 20 cast integral with the boss 11. The opening in the boss 11 through which the bushing 12 and the valve 13 are introduced, is closed by a screw-threaded plug 21.

Normally, the valve 13 is maintained in the closed position, as shown in Fig. 1. When it is desired to drain water from the dirt collecting chamber 7, the valve 13 is turned by the handle 18, so that the port 14 connects passage 15 with passage 16. The water in chamber 7 then drains out. When the valve 13 is in its full open position, the lug 19 on the handle 18 engages the lug 20.

While one illustrative embodiment of the invention has been described in detail, it is not my intention to limit its scope to that embodiment or otherwise than by the terms of the appended claim.

Having now described my invention, what I claim as new and desire to secure by Letters Patent, is:

A dirt collector for a fluid pressure system having a dirt collecting chamber, a check valve controlling communication from the fluid pressure system to said chamber, a drain valve operative to drain water from said chamber, and a handle for operating said drain valve independently of said check valve.

In testimony whereof I have hereunto set my hand, this 17th day of March, 1930.

NORA F. HAYS.