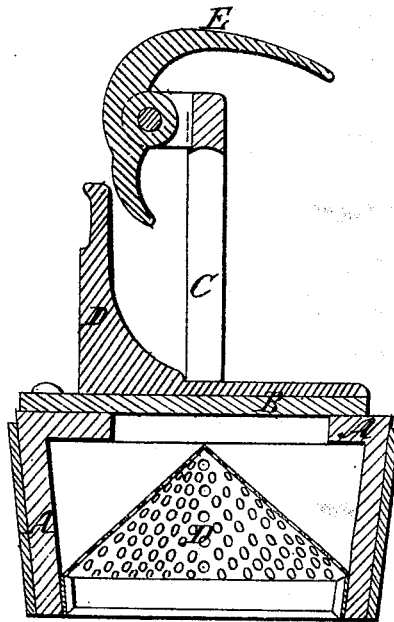


*A. S. Whitehouse.*

*Valve Protector.*

*N<sup>o</sup> 110,319.*

*Patented Dec. 20, 1870.*



*Witnesses.*  
*M. S. G. Wilde.*  
*J. M. Schroeder.*

*Inventor*  
*A. S. Whitehouse.*  
*by J. H. Adams*  
*Att'y -*

# United States Patent Office.

ANTHONY S. WHITEHOUSE, OF ASHLAND, MASSACHUSETTS, ASSIGNOR  
TO HIMSELF AND EDWARD W. SOUTHWORTH, OF SAME PLACE.

Letters Patent No. 110,319, dated December 20, 1870.

## IMPROVEMENT IN PUMP-BOXES.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, ANTHONY S. WHITEHOUSE, of Ashland, in the county of Middlesex and State of Massachusetts, have invented a new and improved Pump-Box; of which the following is a full, clear, and exact description, reference being had to the accompanying drawings making a part of this specification, and representing a transverse vertical section of a valve and valve-box containing my improvement.

The object of my invention is to prevent the entrance of any dirt or other matter within the valve as the water is drawn through it; and

The invention consists in a valve-box forming the inverted frustum of a cone, in which a conical filter is secured, with its apex near the valve at the top, said valve having its attachment to the upper part of said box, as hereinafter shown and described.

Referring to the drawings—

A represents the casing of an ordinary lower pump-valve box.

B is the flap-valve, having attached to its rear upper portion an upright piece, D, which is operated to open the valve by means of the lever E which is pivoted to the support C.

All of the above are of the usual construction and operate in the ordinary manner.

To the lower part of the interior of the casing A is

attached, in any suitable manner, the lower edge of a perforated plate, D, of conical form, its apex extending upward as far as may be found necessary or suitable.

Instead of a perforated plate, wire-gauze may be used of the same form as shown, which latter will be found to act as a filterer to impure or muddy water.

The inclined inner sides of the protector serve to deflect any dirt or foreign substance that may be drawn into the valve-box, and effectually prevent the same from passing to the valve.

What I claim as my invention, and desire to secure by Letters Patent, is—

A valve-box, forming the inverted frustum of a cone, in which a conical filter is placed with its apex near the valve at the top, said valve having its attachment to the upper part of said box, all substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

A. S. WHITEHOUSE.

Witnesses:

J. H. ADAMS,

M. S. G. WILDE.