

(No Model.)

O. H. WOODWORTH.

FILTER PUMP.

No. 397,263.

Patented Feb. 5, 1889.

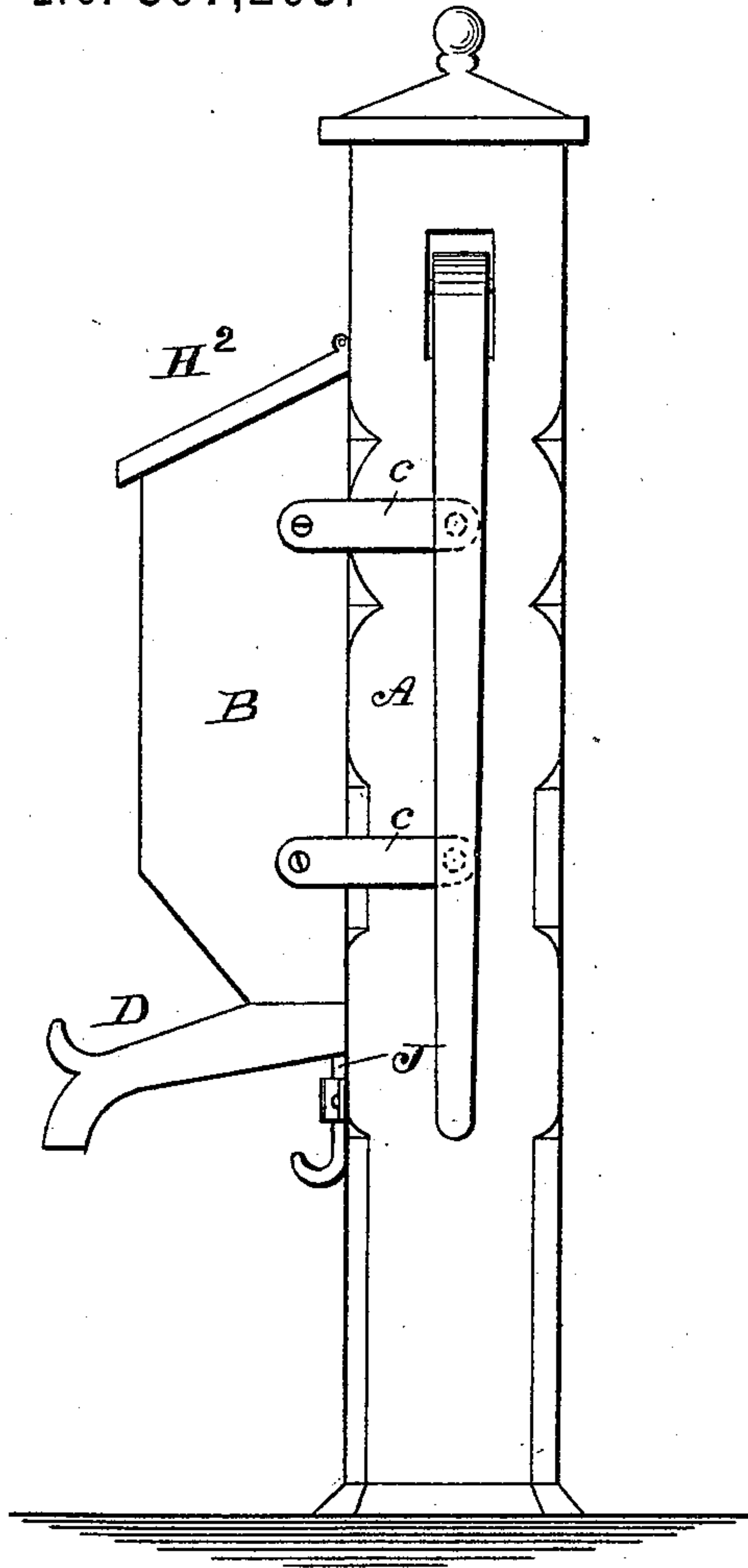


Fig. 1.

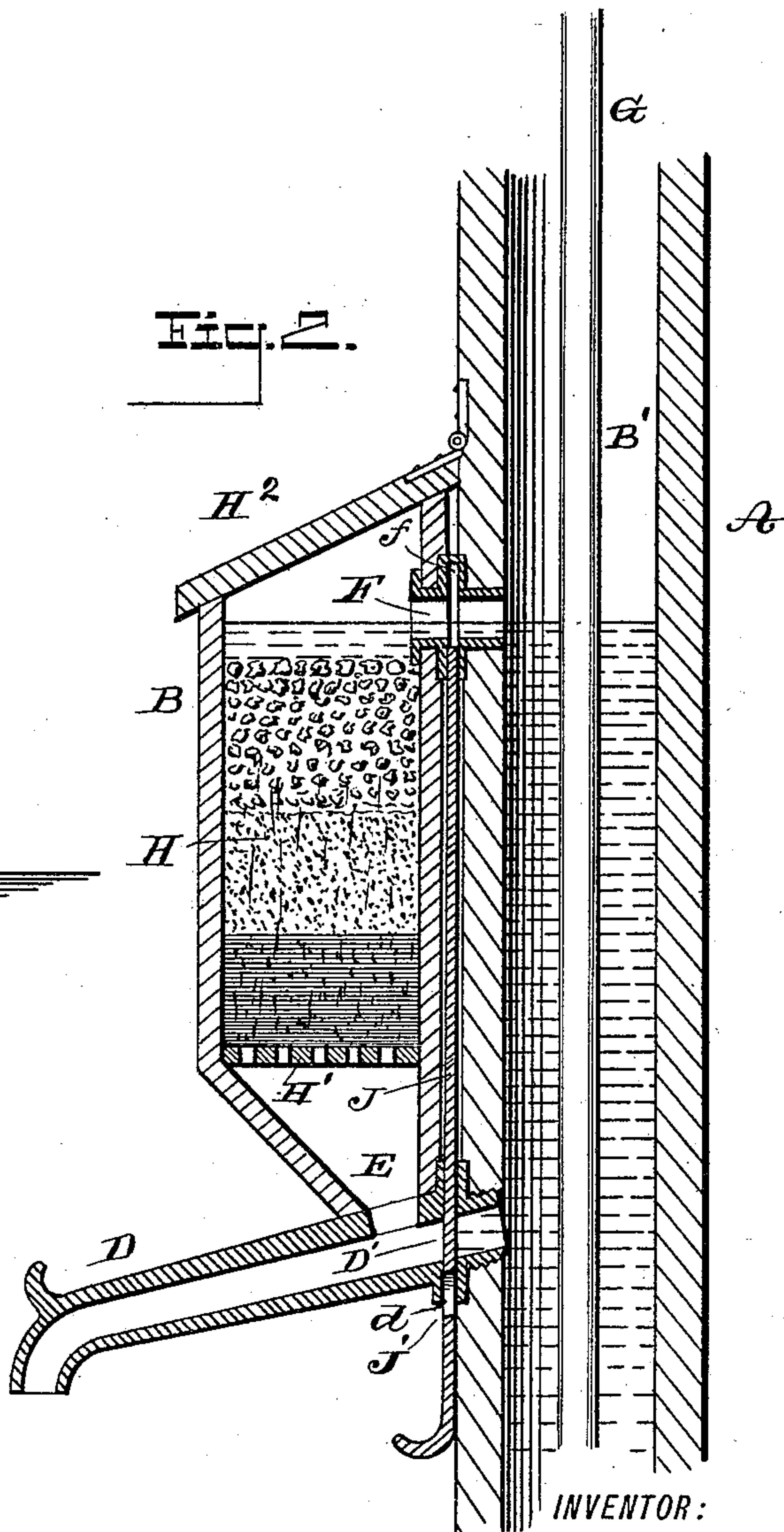


Fig. 2.

WITNESSES:

*O. D. Mott*  
*C. Sedgwick*

INVENTOR:

*O. H. Woodworth*  
BY *Munn & Co.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

ORSON H. WOODWORTH, OF COLUMBIA CITY, INDIANA.

## FILTER-PUMP.

SPECIFICATION forming part of Letters Patent No. 397,233, dated February 5, 1889.

Application filed August 28, 1888. Serial No. 283,953. (No model.)

*To all whom it may concern:*

Be it known that I, ORSON H. WOODWORTH, of Columbia City, in the county of Whitley and State of Indiana, have invented a new and Improved Filter-Pump, of which the following is a full, clear, and exact description.

My invention consists, principally, in the application to a common pump-stock of a filter, into and through which the water may be directed, so that the water may be filtered by the act of pumping it from the well, cistern, river, or other source of supply.

The invention also consists in the connection of the filter both with the bore of the pump and with the spout, valves being provided to direct the water either into the filter or to the spout, so that unfiltered water may be readily drawn when desired.

The invention also consists of the construction, arrangement, and combination of parts, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side elevation of a common pump-stock having my invention applied thereto; and Fig. 2 is a sectional elevation of the same, showing the valves arranged to direct the water to the filter.

B represents the filter-box secured to the pump-stock A by the straps C C or by other suitable means. The lower end of the filter-box B is put in communication with the spout D by the opening E. The upper part of the filter-box is connected with the pump-bore B' by the short pipe F, so that when the opening D' of the spout D is closed the water elevated in the bore B' by the piston and rod G will pass into the filter-box and descend through the filtering material H contained therein, and pass through opening E into the spout D, from which it will flow into any receptacle placed to receive it.

The opening D' may be closed by any suitable valve; but I prefer to employ a sliding plate, J, having aperture J', the upper end of which plate is adapted to close the tube F when the plate is elevated to open the passage D'. The spout is formed with a transverse channel, d, and the tube F is formed with a similar channel, f, to receive the plate J, as shown clearly in Fig. 2.

When the plate J is lowered, as shown in Fig. 2, the spout is closed and the tube F opened, so that in pumping the water will pass to the filter-box and not through the spout directly, as would be the case if the said plate were elevated to bring aperture J' in line with the spout-passage D'.

The filtering material H is held in the box B upon the perforated bottom H', and the top of the box is closed by the hinged door H<sup>2</sup>, through which the said material may be placed in the filter-box.

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

1. The pump-stock A, having spout D, fitted in the stock, and the filter-chamber B, connected to the stock by tube F and to the spout D by opening E, in combination with the valve J, formed with opening J' and fitted in the spout D and tube F, substantially as and for the purposes set forth.

2. The pump-stock A, spout D, connected to the pump-stock and formed in its upper surface with the opening E, and the filter-chamber B, connected with the pump-stock bore by passage F, in combination with the sliding plate J, having apertures J' and fitted in channels d f in the spout and passage F, substantially as and for the purposes set forth.

ORSON H. WOODWORTH.

Witnesses:

T. A. LENFESTEY,  
J. D. WURTSBAUGH.