(No Model.)

E. F. WHEELOCK.

FILTER.

No. 324,622. Patented Aug. 18, 1885.

Fig. 1.

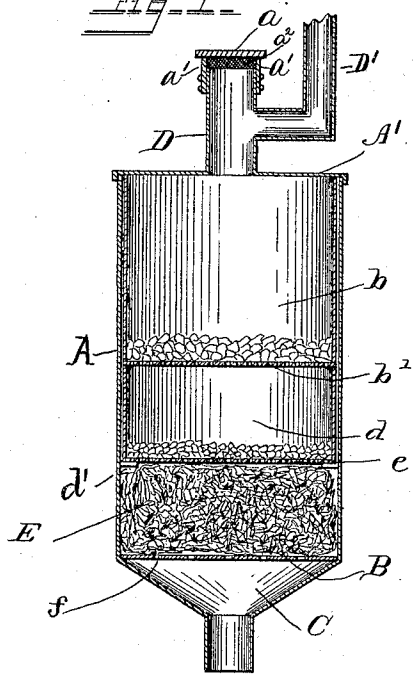


Fig. 2.

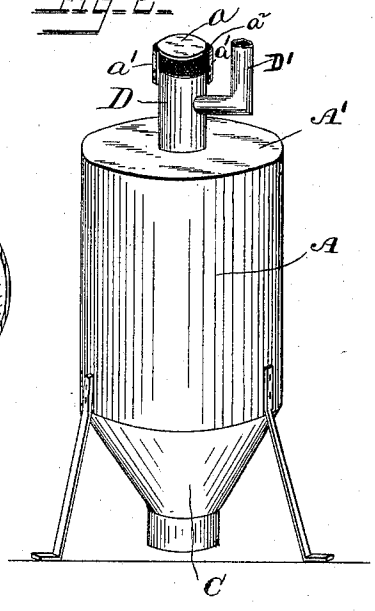


Fig. 3.

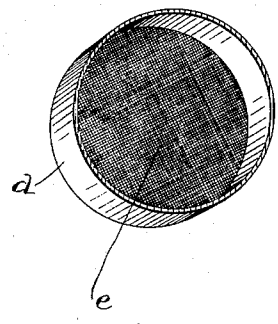
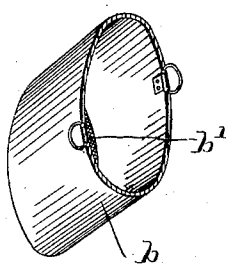


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE

EZEKIEL FOWLER WHEELOCK, OF CORNING, NEW YORK.

FILTER.

SPECIFICATION forming part of Letters Patent No. 324,622, dated August 18, 1885.

Application filed October 14, 1884. (No model.)

To all whom it may concern:

Be it known that I, E. F. WHEELOCK, a citizen of the United States of America, residing at Corning, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Rain-Water Cleaners or Filters, of which the following is a specification, reference being had therein to the accompanying drawings.

My improvement in filters is chiefly designed for filtering rain-water which falls on house-roofs and is carried down in pipes and emptied from rain-water spouts; and it consists in the peculiar construction, combination, and arrangement of the parts, substantially as hereinafter shown and described.

In the accompanying drawings, Figure 1 is a sectional elevation. Fig. 2 is a front view, and Figs. 3 and 4 are details thereof.

In the construction of my filter the perforated disk B is soldered to the cylindric containing-vessel A, having cover A′ integral with receiving-pipe D, and is provided with a funnel, C, for egress of the rain-water, which, in emptying therein from the water-spout of the house-roof, is first conducted into the receiving-pipe D, having the cap *a* rigidly secured thereon, which cap is designed to cover the filter as against the ingress of dust and yet to permit the water to flow over the top of the receiving-pipe D when necessary to prevent its backing up into the pipe D′ above the water-spout when the flow from the roof is too great to admit its outflow from the filter.

The water, on entering the filter, descends through gravel contained in the filtering-can *b*, which can is provided with a foraminated bottom, *b′*, and thence through the perforations of bottom *b′* into the filtering-can *d*, which is also provided with a foraminated bottom, *e*, and filled with gravel, preferably smaller than the fine gravel contained in filtering-can *b*, and after passing through the perforations *e* of the filtering-can *d* it is strained through the sponge E and passes through fine perforations *f* of disk B into funnel C, from which it flows thoroughly cleansed and free from all foreign substances whatsoever.

The filtering-can *d* is secured in position, by means of horizontal studs or projections *d′*, a short distance above the sponge E, and the filtering-can *b*, being of the same size as the interior diameter of receptacle A, rests upon the upper edge of the filtering-can *d*, and hence does not need to be otherwise secured in position. Thus constructed the cans *b* and *d* may be readily removed from time to time and resupplied with gravel, charcoal, or other equivalent substances.

The receiving-pipe D comprises overflow mechanism consisting of a central disk or cap, *a*, integral with three or more standards, *a′*, which are rigidly secured to the periphery of the receiving-pipe, and wire-gauze a^2, which is secured to these vertical standards and caused to encompass the upper periphery of the receiving-pipe, which is designed to exclude dust and other foreign matter while admitting escape of the overflow-water.

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

The filter A, having integral therewith the perforated disk B, and studs *d′* and sponge E, in combination with the cover A′, receiving-pipe D, and cap *a*, having standards *a′*, and gauze a^2, arranged to admit overflow, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

EZEKIEL FOWLER WHEELOCK.

Witnesses:
FRANK B. BROWN,
CHRISTIAN G. HOWELL.