

W. E. Hatfield,

Stench Trap.

N^o 35,606.

Patented June 17, 1862.

Fig. 1.

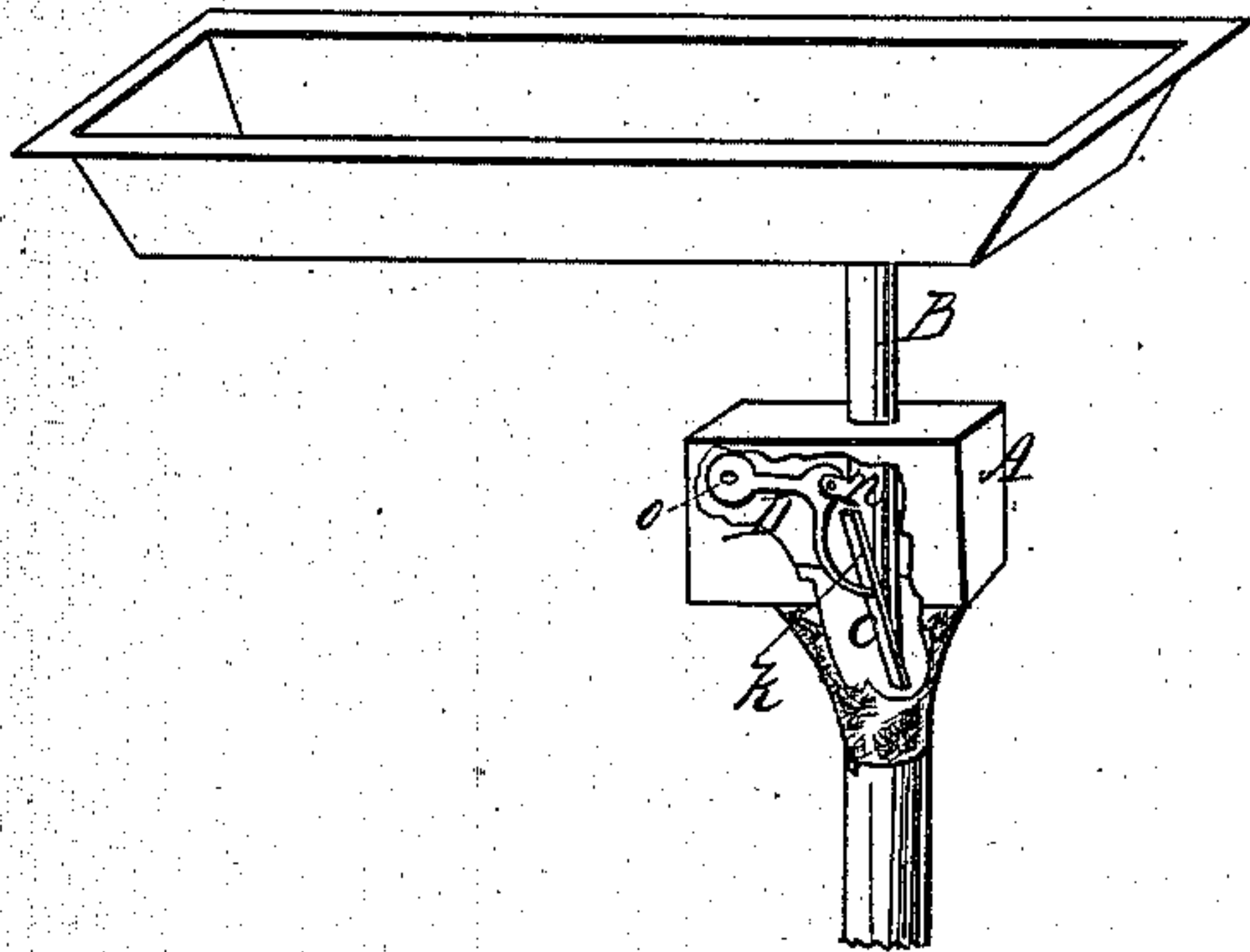


Fig. 3.

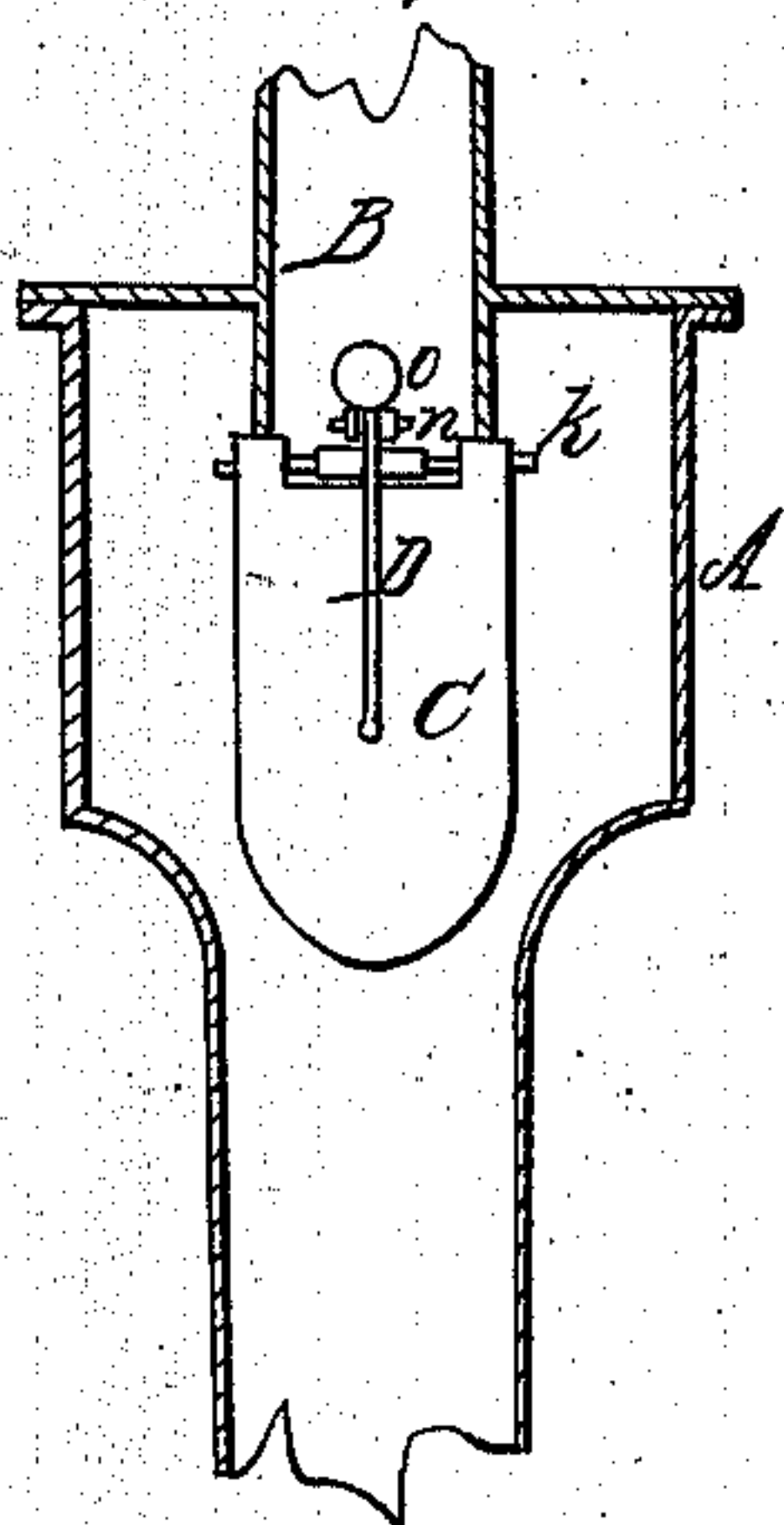
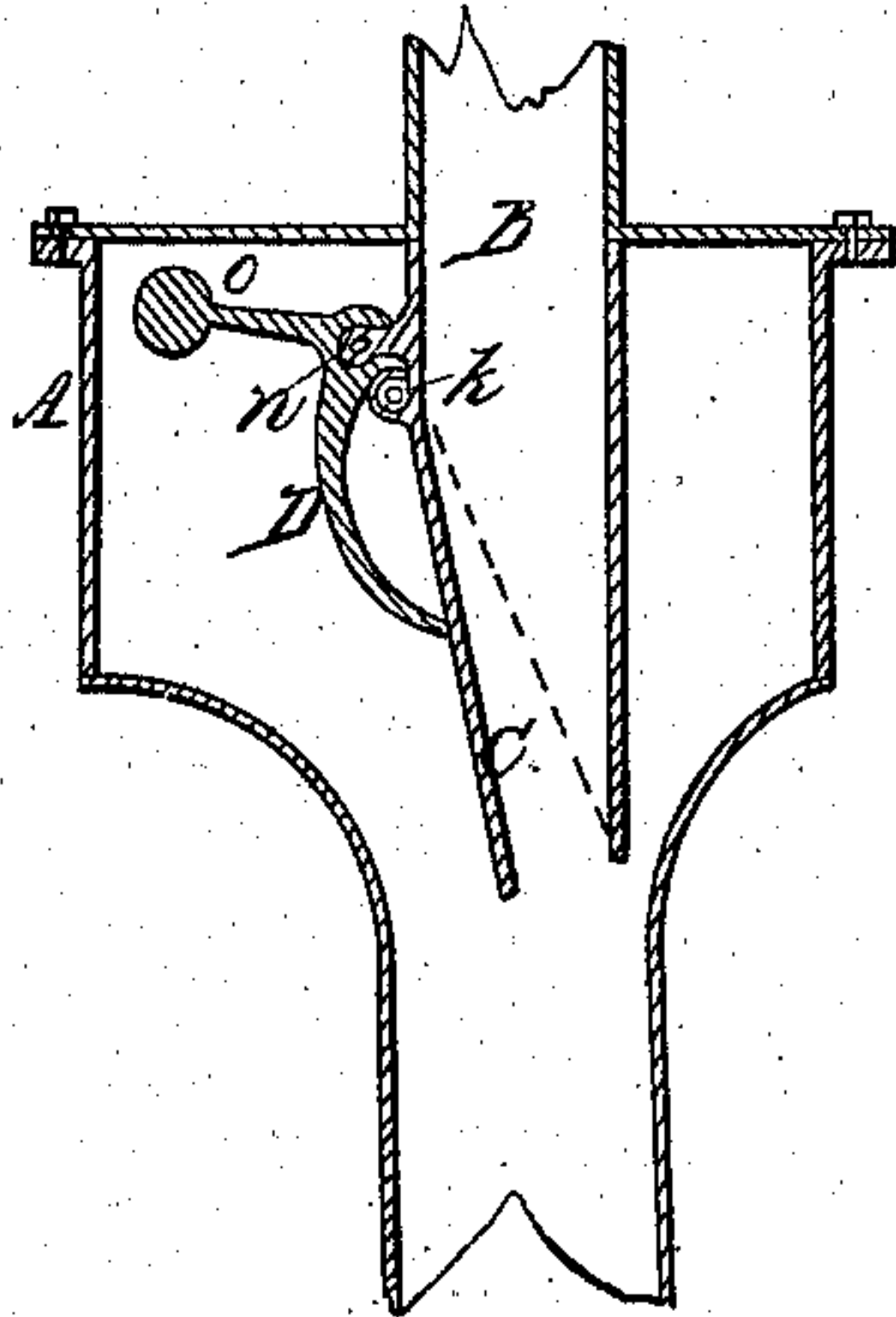


Fig. 2.



Witnesses:
W. M. Gooding
Daniel Brown

Inventor:
W. E. Hatfield

UNITED STATES PATENT OFFICE.

W. E. HATFIELD, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN ODOR-TRAPS FOR SINKS, &c.

Specification forming part of Letters Patent No. 35,606, dated June 17, 1862.

To all whom it may concern:

Be it known that I, WILLIAM E. HATFIELD, of the city of Newark, in the county of Essex and State of New Jersey, have invented certain Improvements in Odor-Traps; and I do hereby declare the following to be a full and exact description of the same, reference being herein had to the drawings which accompany this specification and make a part of the same.

The nature of my improvement consists in the construction and arrangement of a flap or valve in pipes leading from sinks or from water-closets, so as to admit of easy egress and insure a tight closing, the same being opened by the passing matter or fluid without liability of being clogged up thereby.

In the drawings, Figure 1 represents the valve attached to a common kitchen-sink. Fig. 2 is a sectional view of the valve and its case, shown on the side. Fig. 3 shows the end in a sectional view.

The same letters refer to the same part on each figure.

The case or tight box inclosing the flap or valve is shown by the letter A, the upper end of the pipe projecting above the top of the case to admit of its attachment to the conducting-pipes of sinks, cisterns, &c. The bottom end of the pipe B is cut at a very acute angle, and the flap C, hinged to the pipe B at *k*, fits fair and square to the edges of the pipe. At

the back of the pipe B, just above the hinge of the flap, is a projection, *n*, forming a hinge for the support of the lever D. On one end of the crooked lever D is a weight, *o*, which, by pressing the other end of the lever against the flap C, keeps it closed and allows it freely to open. By the acuteness of the angle all lodgment of passing matter is wholly prevented, and if frost should hold it a slight punching would open it without injuring its operating.

I do not confine myself to a hinge for the flap or valve C, any means of suspending it answering the same purpose. If hinged, the hinge has to be so loose as to allow the pressure of the weight *o* to hold the flap close at both of its ends.

I do not claim appurtenances for balancing a valve or for closing it when opened, as does D. Bedford in his patent of September 25, 1855; but

What I do claim, and desire to secure, is—

The odor-trap having a valve at such an acute angle as to require but slight pressure to close or open it, when constructed substantially in the manner and for the purpose hereinabove specified.

W. E. HATFIELD.

Witnesses:

W. M. GOODING,
DANIEL CRONIN.