

C. M. Alburger,
Hydrant.

N^o 11,563.

Patented Aug. 22, 1854.

Fig. 1.

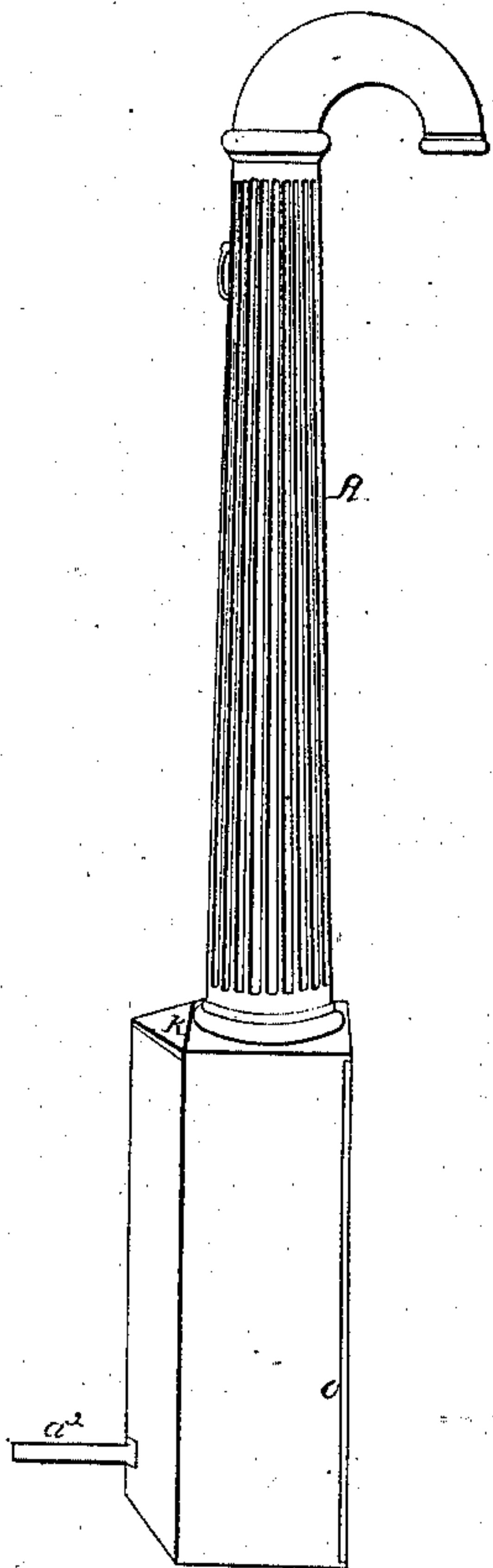


Fig. 2.

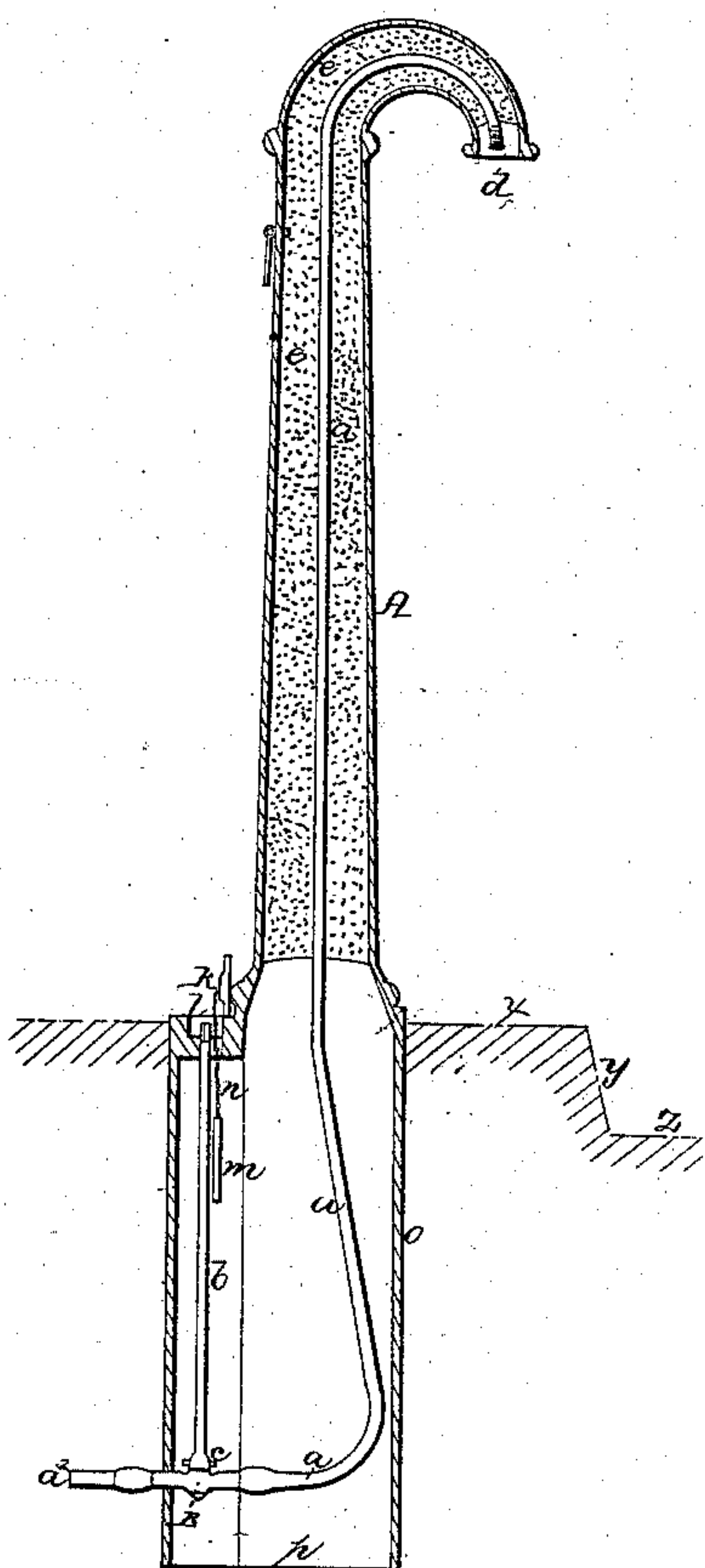
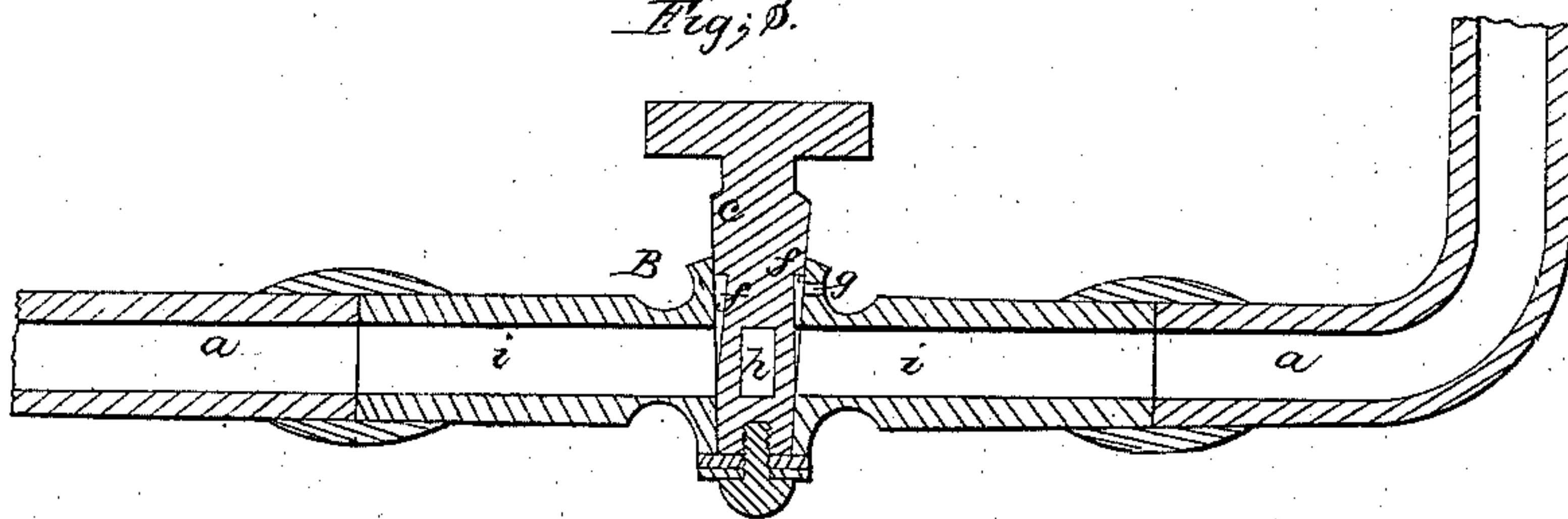


Fig. 3.



Witnesses,
Benj. Munson
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CHARLES M. ALBURGER, OF PHILADELPHIA, PENNSYLVANIA.

PAVEMENT-WASHER, HOSE-HYDRANT, AND HITCHING-POST.

Specification of Letters Patent No. 11,563, dated August 22, 1854.

To all whom it may concern:

Be it known that I, C. M. ALBURGER, of the city of Philadelphia and State of Pennsylvania, have invented a new and useful
5 Improvement in the Pavement-Washer and Hose-Hydrant; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the
10 annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view; Fig. 2 a longitudinal section through the middle; and Fig. 3, an enlarged longitudinal section,
15 through the middle, of the double waste cock, in connection with the pipes. The same letters indicating like parts when on the several figures.

A is the case, which is made of cast iron.
20 B, the double waste cock in connection with the pipes or tubes (a and a^2).

b is the key rod, by which the plug (c) of the cock is operated.

d is the end of the outlet pipe (a) having
25 a screw thread on it for attaching hose.

e is the sand core (first formed on the pipe) which may be left remaining in the upper part of the case, firmly securing the interior iron pipe (a) in place.

30 f, f , are the two waste notches, cut in opposite sides of the plug (c) of the cock.

g is the waste hole in the barrel communicating with either one of the notches (f, f) when the plug (c) is turned accordingly,
35 so that the through way (h) therein extends across the water way (i, i) of the cock.

k is a cover or lid adapted to cover the circular depression or cavity (l), which is left in the case for the square or key end of the key-rod which projects up within the
40 cavity.

m , is a weight attached by a chain (n), or its equivalent, to the lid (k) above, the chain being made to pass freely through a
45 hole in the bottom of the cavity (l) so that the lid may be raised—up when required—or drawn down and held in its place over the cavity by means of the weight. The key rod (C) is divided at the lower end and fits over
50 and is secured to the plug in the usual manner, its upper end passing loosely through a round hole in the bottom of the cavity (l). The lower end, or boxed part of the case (A) is made sufficiently capacious to admit and
55 adjust the double waste cock, with the pipes and operating rod, and is about two feet

long—and to facilitate adjustment, one side is cast open and fitted with a loose cover (o)—the bottom (p) is also open. The upper part of the case is made about three feet
60 long, and so as to answer the double purpose of a horse hitching-post and hose hydrant, having a “goose neck” or other downward projection at the upper end, so that the water running from the pipe (a)
65 therein, may be directed down upon the curb stone, or into a receiving vessel, or may have a hose attached at the threaded end (d). The outlet pipe is made a little shorter at this end than the goose neck, so as not to be
70 seen from the outside, the sand core being removed for a short distance above the thread, and a small quantity of melted lead, or its equivalent, run around to fix firmly the end of the pipe, and also prevent the re-
75 maining sand above, from falling out, and allow room for screwing on the hose. The box part of the case is sunk in the ground near the curb stone of a street (as shown by the dotted lines x, y, z) and the part form-
80 ing the permanent hose hydrant and hitching post, projecting perpendicularly upward.

The mode of operation of my invention is simple and convenient. Being placed in the
85 pavement as above described, and the pipe (a^2) in permanent connection with the supply pipe, the lid (k) is raised (by hand) and, by means of the common “key” applied over the projecting end of the key rod
90 (b), the plug (c) of the cock is turned so that the through way (h) affords a passage for the water, which now passes up through the pipe (a) and out at (d)—and when the
95 plug is again turned (bringing the through way (h) across the water way of the cock,) a communication is furnished through one of the waste ways (f, f) to the outlet waste
100 hole (g) and through which the water remaining in the pipe (a) wastes or runs out and soaks away in the ground through the open bottom of the case. In the usual mode
of wasting this water but one waste (f) is made in the plug, and a small pin fixed in the side of the plug so as to prevent the
105 plug being turned more than one fourth round in the barrel, and the objection to the said mode consists in its great liability to derangement by the pin breaking, and thus
110 allowing the plug to be turned in the wrong direction, leaving the water in the pipe (a) which in cold weather freezes and bursts

the pipe—whereas by my double waste, the water cannot be shut off without at the same time affording a waste for the water in the pipe (a) the plug being turned in either
5 direction.

The general advantages of my invention over all others of the kind, are also very obvious, viz. The case (A) constituting the exterior of the pavement-washer and hose
10 hydrant, being of iron cast in one piece, is not liable to rise in the ground from the effect of frost, as is the case with the common devices in use—is convenient and durable, not liable to get out of order, and be-
15 sides affords a permanent and convenient hitching post for horses, at a much less cost than the two separate devices for these purposes.

Having thus described the construction
20 and mode of operation of my invention, I proceed to state that I do not claim a pavement washer and hose hydrant independent of any peculiarities in their construction and combination, but

What I claim as my invention, and desire 25 to secure by Letters Patent, are—

1. I claim making a double waste cock by cutting the two waste notches (f, f) or their equivalents, in the plug (c) of the cock, so that either notch may be put in communica- 30 tion with the usual waste hole (g) in the barrel, by turning the plug in either direction, substantially and for the purpose as described—when the said double waste cock is used in combination with a pavement 35 washer, hose hydrant, or other hydraulic apparatus requiring the water in the outlet pipe above to waste in the ground below, when the reservoir pressure is shut off by turning the plug of the cock. 40

2. I claim the general arrangement and combination of a pavement washer, hose hydrant, and hitching post, substantially and for the purposes as described.

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Witnesses:

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