

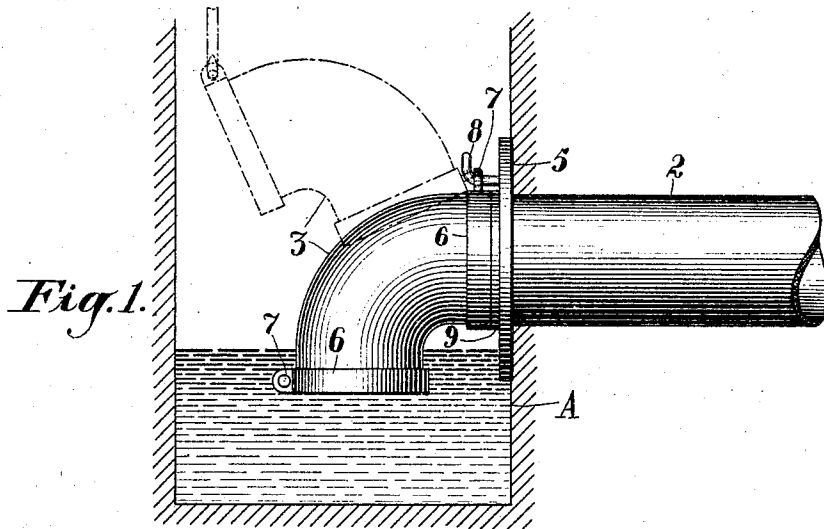
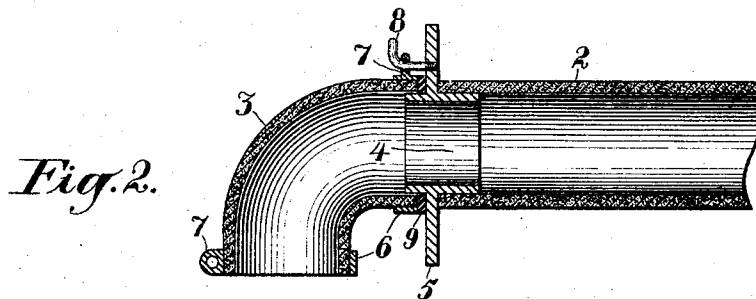
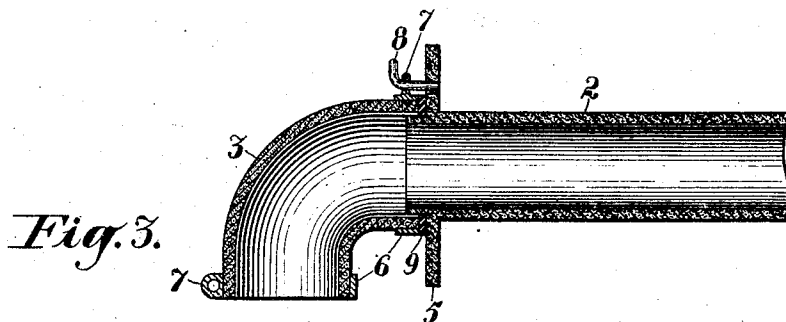
No. 772,091.

PATENTED OCT. 11, 1904.

A. W. EDWARDS.
DRAIN TRAP.

APPLICATION FILED JULY 15, 1903.

NO MODEL.



Witnesses:-
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UNITED STATES PATENT OFFICE.

ARTHUR W. EDWARDS, OF SACRAMENTO, CALIFORNIA.

DRAIN-TRAP.

SPECIFICATION forming part of Letters Patent No. 772,091, dated October 11, 1904.

Application filed July 15, 1903. Serial No. 165,671. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR W. EDWARDS, a citizen of the United States, residing at Sacramento, in the county of Sacramento and State of California, have invented new and useful Improvements in Drain-Traps, of which the following is a specification.

My invention relates to an improved trap for use in catch-basins, slop-hoppers, and the like or wherever the backflow of sewer-gas is to be guarded against. Its object is to provide a simple effective trap which may be readily applied to present sewerage systems and which will permit of easy access to the pipe or sewer leading from the hopper or catch-basin.

It consists of the parts and the construction and combination of parts, as hereinafter more fully described, having reference to the accompanying drawings, in which—

Figure 1 is a view of the device as applied to an ordinary catch-basin. Fig. 2 is a sectional view of the invention. Fig. 3 is a sectional view showing a modification of the same.

A represents a catch-basin such as is ordinarily placed or built in the bed of the street adjacent to the curb for the collection of storm and other waste water and adapted to discharge into a pipe 2, connecting with the sewer. Where these discharge-pipes are left open or unsealed, much inconvenience is experienced by passers-by and others living in the neighborhood, and sickness not infrequently results from the escaping sewer-gas.

My invention resides in the formation of a combined hinged gravity-actuated closure and water seal in connection with the catch-basin or other reservoir and its outlet.

In the present instance I have shown a pipe-elbow 3 of suitable size hinged so as to close over the end of pipe 2 and having its lower end normally dipping into water contained in the bottom of the reservoir to form a water seal and prevent the escape of gas.

Where the invention is to be applied to systems already in use, I provide a short metal sleeve 4, Fig. 2, having a peripheral flange 5 intermediate of its ends. One end of the sec-

tion is adapted to telescope within and be cemented to the outlet-pipe, the other end to project slightly into the basin or reservoir A and to telescope within elbow 3.

The elbow 3 when made of stone is surrounded at each end by a metal band 6, each band having an eye 7, the one to engage with a hook member 8 on flange 5 above sleeve 4 and the other to be engaged by a hook or other instrument when the elbow is to be lifted to give access to the discharge-opening, as indicated in dotted lines, Fig. 1. If it is designed to construct the elbows of metal, the eyes 7 may be made integral with the body of the elbows.

9 is a washer or gasket, of rubber or other suitable material, interposed between the end of the elbow and flange 5 and affording a gas-tight seat for the elbow.

Fig. 3 shows a stone or like pipe-section with flange 5 formed integral with it and a portion of the pipe extending beyond the flange to enter the elbow 3.

In operation the eye at one end of the elbow is engaged with hook 8 and the elbow allowed to seat by gravity over the protuberant end of the sleeve 4, as in Fig. 2, or of pipe 2, as in Fig. 3, and to seat against the washer 9. The lower end of the elbow extending as it does below the level of the outlet-pipe and dipping into the water-bath effectually prevents any backflow of gas from the sewer. Whenever the water in the basin A rises above the level of the outlet-pipe, the excess flows off. Should it be desired to flush out the outlet-pipe, the elbow is engaged, as indicated in dotted lines, Fig. 1, and turned on hook 8 as a pivot, being entirely detached therefrom and removed from the basin, if desired. On being reengaged by hook 8 the elbow immediately drops into position over the outlet.

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

1. In a drain-pipe, the combination of a pipe, a connecting-elbow provided with an eye adjacent to one end, a sleeve telescopically fitting

the elbow and pipe and having a flange extending across the meeting ends thereof, said flange having means to engage said elbow-eye.

2. In a drain-pipe, the combination of a pipe, 5 an elbow, and a connection between said pipe and elbow adapted to be inserted into the pipe, said connection comprising a flanged sleeve, and means for pivotally suspending the elbow from the flange of said sleeve.

10 3. In a drain-pipe, the combination of an elbow and a sleeve telescoping therewith and having a lateral projection intermediate of its ends, and cooperating hinge members carried by the elbow and said projection.

15 4. In a drain-pipe the combination of a pipe and an elbow said pipe and elbow composed of stone and said elbow having metal reinforcements at the ends, and a metal sleeve tele-

scopically fitting the pipe and elbow and having a peripheral flange extending radially 20 across the meeting ends of the pipe and elbow.

5. In a drain-pipe the combination of a pipe and connecting-elbow, metal rings fitted to the ends of the elbow and provided with eyes, a metal sleeve telescopically fitting the elbow 25 and pipe and having a flange extending across the meeting ends thereof, said flange having a hook to engage the eye of the contiguous metal ring on the end of the elbow.

In testimony whereof I have hereunto set 30 my hand in presence of two subscribing witnesses.

ARTHUR W. EDWARDS.

Witnesses:

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A. B. REYNOLDS.