

O. W. SCHLAG.
VALVE.

APPLICATION FILED DEC. 6, 1919.

1,366,028.

Patented Jan. 18, 1921.

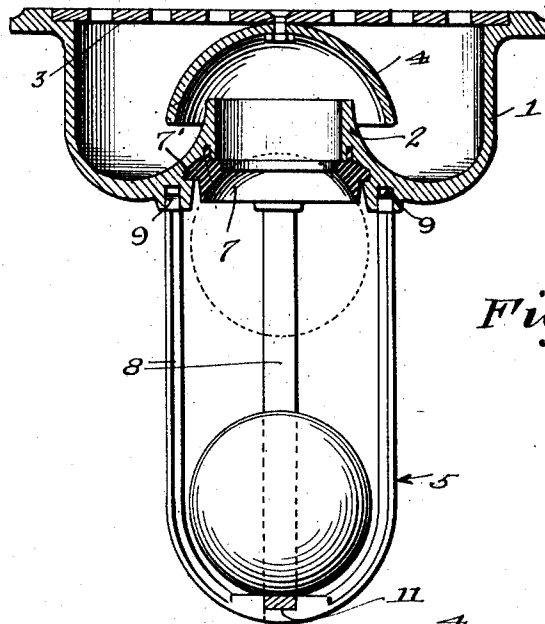


Fig. 1.

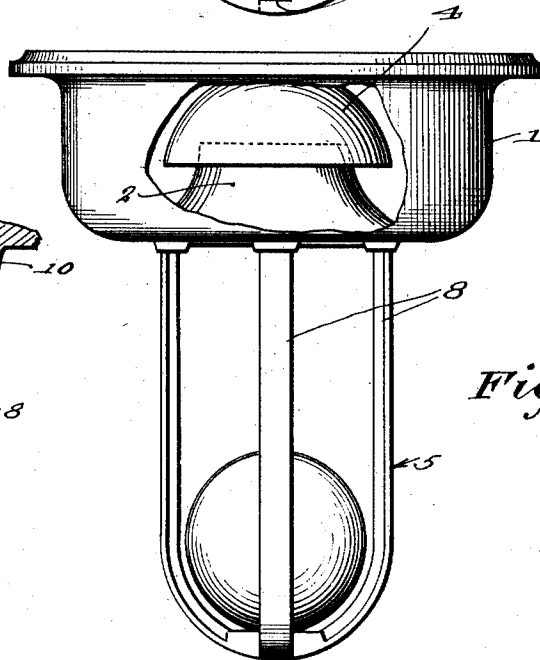
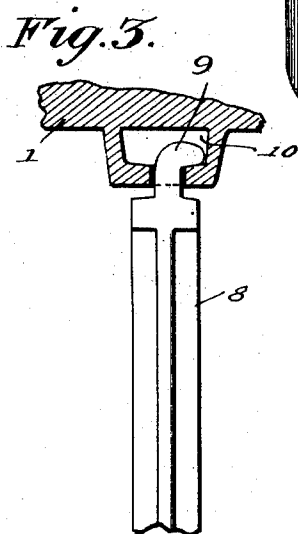


Fig. 2.



WITNESS:
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VALVE.

1,366,028.

Specification of Letters Patent. Patented Jan. 18, 1921.

Application filed December 6, 1919. Serial No. 342,950.

To all whom it may concern:

Be it known that I, OSCAR W. SCHLAG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Valves, of which the following is a specification.

This invention relates to improvements in a combined drain and trap for sewer pipes and the principal object of the invention is to provide a gas trap to prevent the escape of gas from the sewer and also to prevent foreign substances from passing into the sewer.

Another object of the invention is to provide a float valve for preventing back pressure of the water within the sewer flowing outwardly through the drain with a removable cage for holding the ball in place.

The present invention is an improvement upon the device shown in Patent No. 1,218,482, granted to me on March 6, 1917.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a longitudinally sectional view of the improved device.

Fig. 2 is a side elevation with parts broken away.

Fig. 3 is a detail view.

In these views 1 indicates the bowl of the device which is provided with a tubular projection 2 in its center through which the water passes to the sewer. The top of the bowl is closed by the usual perforated plate 3 and a bell 4 is connected with said plate and incloses the upper end of the tubular projection 2. The edges of the bell project beyond the upper end of said projection so that when the bowl is filled with water a trap will be formed to prevent the escape of gases from the sewer.

I also provide means for preventing the water from passing from the sewer back into the drain, as set forth in the above mentioned patent. Such means consist of a cage 5 connected with the bottom of the bowl and inclosing the ball valve and its seat 7.

In the present case the cage is formed of a pair of U-shaped members 8 having their ends provided with hooks 9 and these hooks engage sockets 10 formed on the lower part of the bowl. Thus by rocking the U-shaped members the hooks may be withdrawn from the sockets so as to remove the cage from the bowl. The cross-pieces of the U-shaped members are provided with interlocking notches 11 for holding the lower ends of the members together.

The valve seat 7 is preferably formed of rubber and it is held in place by having its flange 7' pressed under the projecting parts of the sockets. As will be seen this valve seat is placed around the lower end of the tubular projection.

It will thus be seen that the gases within the sewer are prevented from escaping by air trap formed by the bell and the tubular projection. It will also be seen that the escape of water from the sewer is prevented by the float valve and this valve and its seat may be easily removed by detaching the cage.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A device of the class described comprising a bowl having a centrally arranged opening therein, a plurality of socket members formed on the bottom of the bowl around said opening, a cage formed of a pair of U-shaped members having hooked ends engaging the socket members, a valve seat at the lower part of the opening and a ball valve within the cage and adapted to engage the seat.

2. A device of the class described comprising a bowl having a centrally arranged opening therein, a plurality of socket members formed on the bottom of the bowl
5 around said opening, a cage formed of a pair of U-shaped members having hooked ends engaging the socket members, a valve seat

at the lower part of the opening, a ball valve within the cage and adapted to engage the seat, said seat being formed of flexible material and having parts projecting under the
10 socket members.

In testimony whereof I affix my signature.
OSCAR W. SCHLAG.