

E. CARDARELLI.
DOWN SPOUT.
APPLICATION FILED AUG. 7, 1909.

974,550.

Patented Nov. 1, 1910.

Fig. 1.

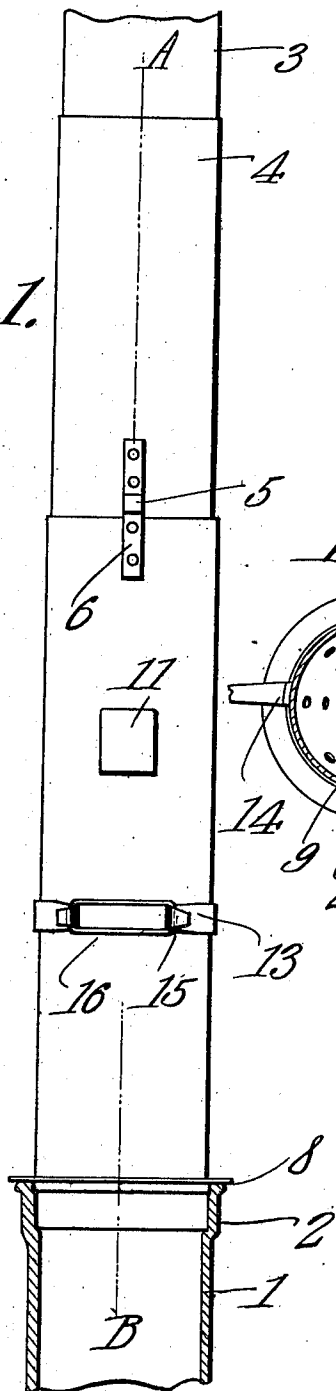


Fig. 3.

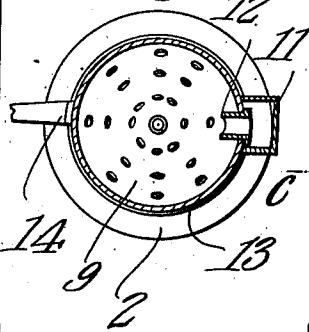
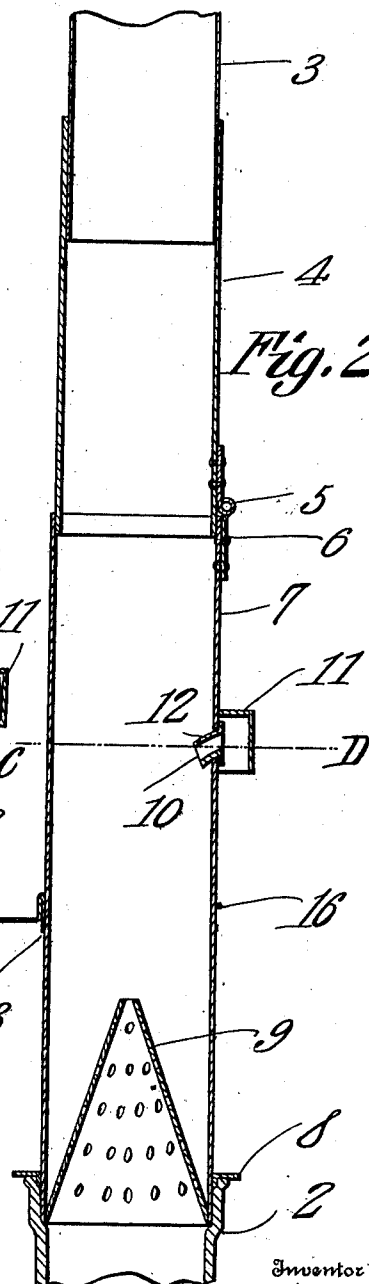


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

EMILIO CARDARELLI, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-THIRD TO
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DOWN-SPOUT.

974,550.

Specification of Letters Patent.

Patented Nov. 1, 1910.

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To all whom it may concern:

Be it known that I, EMILIO CARDARELLI, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Down-Spout, of which the following is a specification.

This invention relates to down-spouts and its object is to provide a device of this character having combined therewith a strainer designed to separate from the drain water any trash which may enter the down-spout and tend to clog the drain pipe, into which the spout opens.

Another object is to provide a down-spout having a removable strainer-containing section which can be conveniently cleaned when removed and readily placed in or removed from position.

Another object is to provide a down-spout having means designed to permit overflow of water should the strainer become clogged by accumulations of foreign matter.

With these and other objects in view, the invention consists of certain novel details of construction and the combinations of parts hereinafter more fully described and pointed out in the claims.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is an elevation of a portion of a down spout embodying the present improvements, a portion of the drain pipe into which it opens being shown in section. Fig. 2 is a longitudinal section through the parts shown in Fig. 1, said section being taken on the line A—B. Fig. 3 is a section on line C—D, Fig. 2.

Referring to the figures by characters of reference, 1 designates a drain pipe having a bell 2 at its upper end and 3 designates the down spout. This down-spout terminates at a point above the drain pipe and has a sleeve 4 slidably mounted on it. One member 5 of a hinge is connected to the lower portion of the sleeve and engages the other member 6 of said hinge, this last mentioned member being attached to the upper portion of a tubular screen casing 7, the lower end of which normally rests within the bell 2 and has an annular flange 8 designed to lap and bear upon said bell. A conical screen 9 is secured within the lower end of the casing 7 and an outlet opening 10 is formed within the casing at a point above this screen, there

being a hood 11 arranged on the outer face of the casing and extending over the opening, the hood being open only at the bottom.

A shield 12 extends inwardly from the casing and around the opening and is inclined downwardly toward its inner end. A band 13 is designed to embrace the casing and has a spur 14 extending therebeyond and which may be driven into a wall or other supporting structure adjacent the casing 7. The ends of the band are formed with hooks 15 and these are designed to engage a tie device such as a wire 16, which, when tightened, serves to bind the band tightly on the casing 7.

When a device such as described is employed, the rain water in passing downward therethrough will flow through the screen 9 and any trash commingled therewith will be separated therefrom by the screen. Should this screen become clogged, the water will back up within the casing 7 and overflow through the opening 10. The hood 11 serves to direct this overflow downwardly. Should it be desired to clean the screen, it would first be necessary to detach the tie device 16. The sleeve 4 and the casing 7 should then be moved upward until the casing clears the bell 2. Then, by swinging the casing upon its hinge the sleeve 4 can be moved downward off of the down-spout. Casing 7 can then be inverted and the accumulated trash removed therefrom. The foregoing operation is of course reversed while the parts are being assembled. By providing the shield 12, any water flowing downwardly within the casing 7, is prevented from escaping through the opening 12.

It is to be understood that various changes may be made in the construction and arrangement of the parts without departing from the spirit or sacrificing the advantages of the invention.

What is claimed is:—

1. The combination with a drain pipe and a fixed down spout thereabove and spaced therefrom; of a sleeve mounted to slide and rotate upon the down spout, a casing hingedly connected to the sleeve and insertible into the drain pipe, and an attaching spur detachably connected to and extending radially from the casing.

2. The combination with a down spout, and a hinged casing slidably mounted thereon; of attaching means including a spur, a

flexible band integral with the spur and embracing the casing, said band having hooked terminals, and means wrapped about said terminals for holding them against spreading movement and binding the bands about the casing.

In testimony that I claim the foregoing

as my own, I have hereto affixed my signature in the presence of two witnesses.

EMILIO CARDARELLI.

Witnesses:

WILLIAM J. BARRY,
PATRICK FLANAGAN.