

F. J. LOUIS.
CUT-OFF FOR DRAIN PIPES.

(Application filed Jan. 18, 1902.)

(No Model.)

Fig. 1.

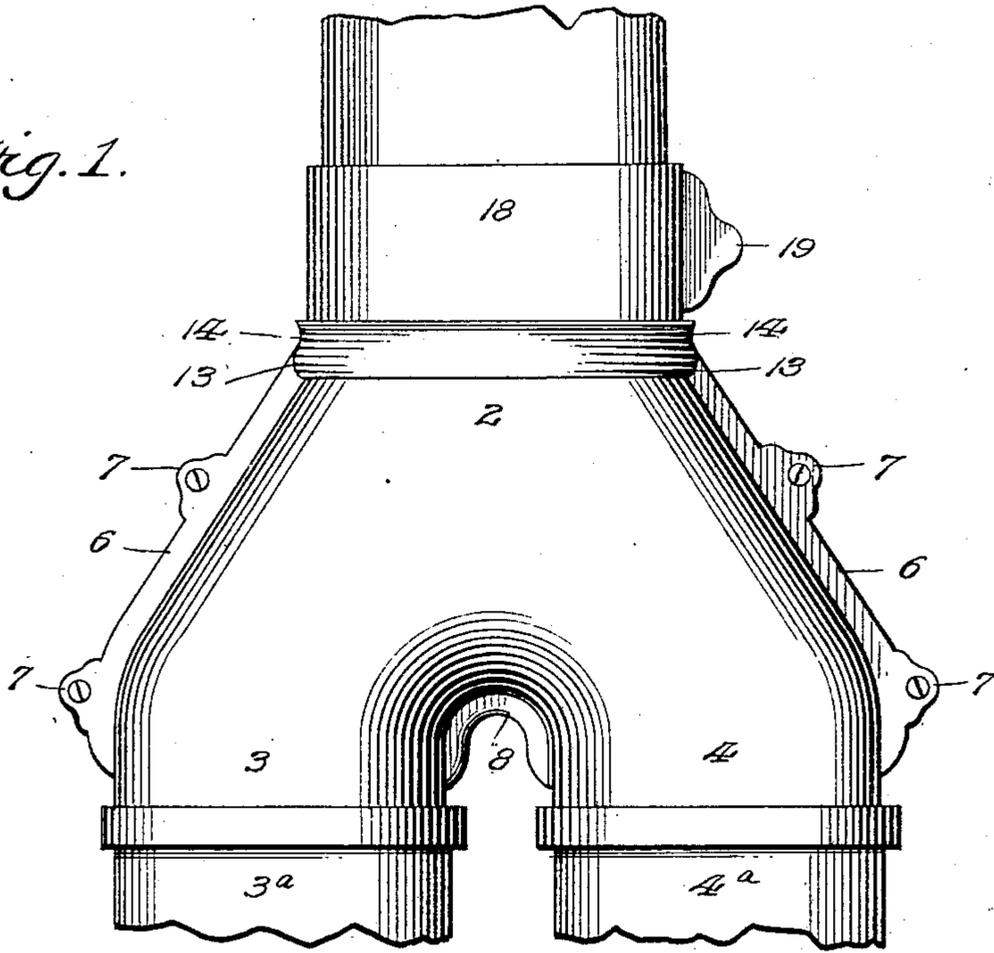
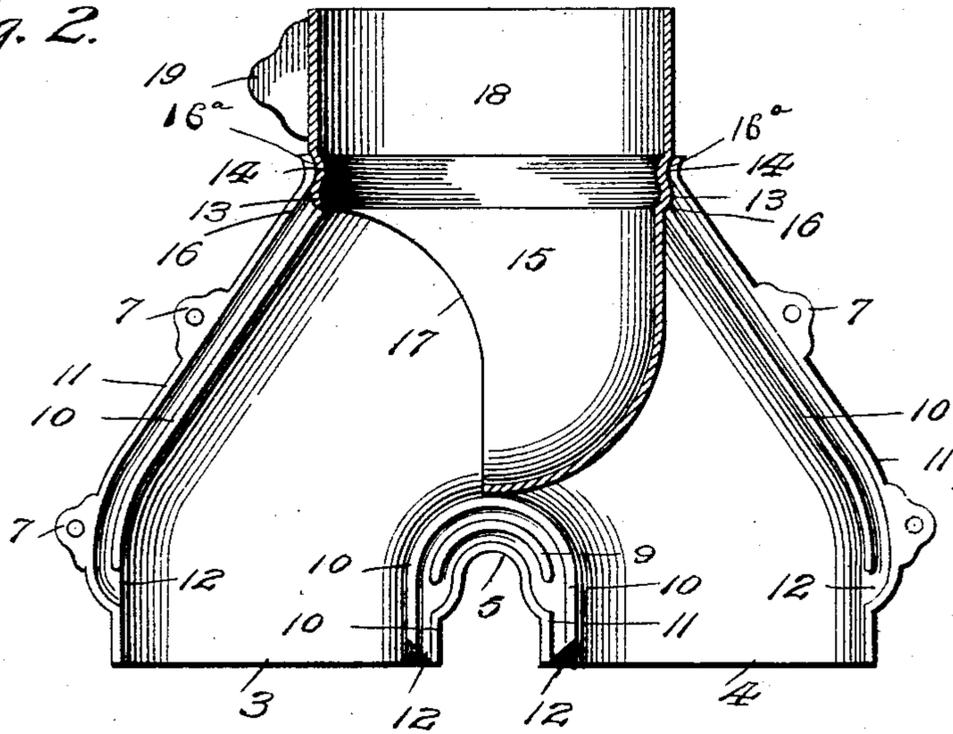


Fig. 2.



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Witnesses

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FRANK J. LOUIS, OF BELLEVILLE, ILLINOIS.

CUT-OFF FOR DRAIN-PIPES.

SPECIFICATION forming part of Letters Patent No. 713,466, dated November 11, 1902.

Application filed January 18, 1902. Serial No. 90,321. (No model.)

To all whom it may concern:

Be it known that I, FRANK J. LOUIS, a citizen of the United States, residing at Belleville, in the county of St. Clair and State of Illinois, have invented certain new and useful Improvements in Cut-Offs for Drain-Pipes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to cut-offs for drain-pipes, and has for its object the production of an improved device of this character which will obviate the necessity of the use of lead in the construction thereof and which will not become damaged by freezing and will be cheap, durable, and effective.

Further objects of the invention will appear as the motive of the invention is more fully understood from the following description.

The invention consists in the novel construction, combination, and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a device constructed in accordance with my invention. Fig. 2 is a side elevation of one of the sections, showing the interior thereof and a vertical longitudinal section of the valve.

The numeral 1 designates a casing having an inlet 2 and outlets 3 and 4, to which are attached the cistern and waste pipes 3^a and 4^a.

The casing 1 consists of two sections, each being concavo-convex in cross-section and provided with a partition 5, which when the sections are secured together to form the casing divides said casing and provides outlets 3 and 4 for the cistern and waste water. The sections are formed with outwardly-projecting channeled flanges 6, provided with lugs 7, having perforations, through which pass bolts or any suitable fastening means for securing said sections together. The bridge 5 is also provided with a channeled flange, (designated 8,) and said channel is divided by an inverted-U-shaped partition 9. The channeling of the flanges 6 and 8 forms grooves between the joints of said casing and provides meeting edges 10 and 11, and the said

grooves have interior discharge-openings 12. The said grooves thus formed in the joints of the casing prevent the joints from becoming damaged by freezing, as any water which may find its way through the interior meeting edges 10 of the joints will be conducted back into the casing through the discharge-openings 12, thus obviating any liability of water remaining in the joints to become frozen.

The casing 1 is provided at its inlet with an annular recess and shoulder 13 and 14, adapted to receive the valve 15, which is provided with a shoulder 16 to fit in said recess 13 and a recess 16^a to receive said shoulder 14.

The valve 15 is approximately semispherical in form, having a discharge-opening 17, adapted to register with one of the outlets 3 and 4 and provided with an annular collar 18 to receive the drain-pipe, and carries a finger-piece 19, by means of which said valve may be turned to conduct the water to the cistern-discharge 3 or the waste-discharge 4. The lower portion of said valve rests upon the bridge 5, thereby preventing any undue strain upon the bearing formed by the recesses and shoulder in the casing and valve.

The operation of my improved device is as follows: The parts being assembled, as shown in Fig. 1, by the turning of the valve 15, so that the discharge-opening 17 will register with the cistern-discharge 3, the water is conducted thereto, and by turning the valve in the opposite direction the water will be conveyed to the waste-discharge opening 4.

It is obvious from the above description, taken in connection with the accompanying drawings, that I provide an improved cut-off in the construction of which the use of lead is obviated, thereby producing a device not easily damaged, that by constructing the casing of two sections when one section becomes damaged it may be replaced, obviating the necessity of buying an entire new casing, and by providing the joints with drain-grooves the same are prevented from becoming damaged by water accumulating therein and becoming frozen.

Having thus described my invention, what I claim is—

1. The casing of a cut-off comprising sections provided at their meeting edges with grooves having discharge-openings.

2. The casing of a cut-off comprising sections provided at their meeting edges with grooves having interior discharge-openings.

3. The casing of a cut-off comprising sections having flanges at their meeting edges, and provided with grooves having discharge-openings.

4. The combination with the drain cistern and waste-water pipes, of a casing having an inlet and two outlets, said casing comprising two sections, each of concavo-convex shape in cross-section, and having a bridge providing said outlets, channeled flanges upon said bridge and edges of the sections providing grooves having interior discharge-openings between the joints of the casing and a groove and recess in and near the top of each section forming an annular shoulder and recess when said sections are secured together, and

a valve having a recess and a shoulder to receive and fit in the first-mentioned shoulder and recess respectively whereby said valve is journaled in the casing.

5. The combination with the drain, cistern and waste-water pipes, of a casing comprising sections provided at their meeting edges with grooves having discharge-openings, and having an inlet and outlets, said inlet having an annular shoulder and recess, and a valve provided with an annular recess and shoulder to receive and fit in the first-mentioned shoulder and recess, respectively.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK J. LOUIS.

Witnesses:

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