H. KRIPPENE.

CUT-OFF.

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1,275,166.

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Fig. 1.

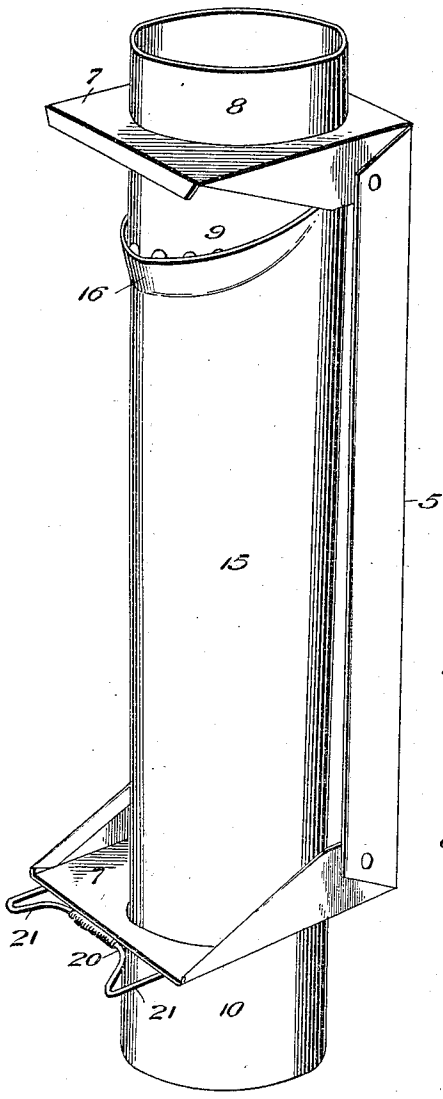
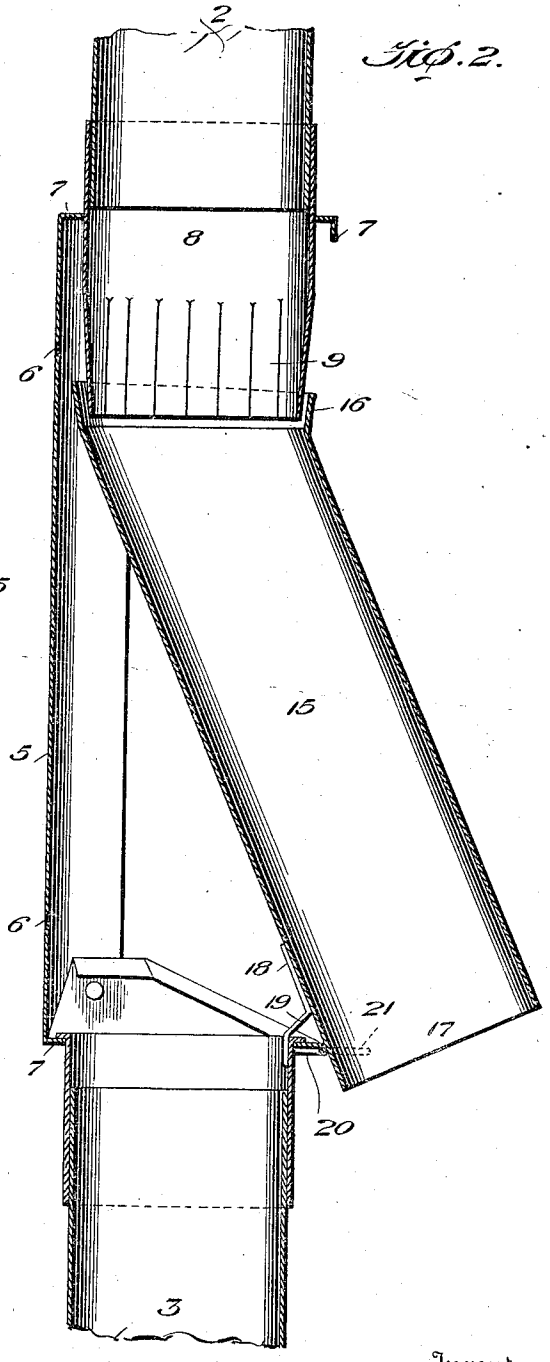


Fig. 2.



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CUT-OFF.

1,275,166. Specification of Letters Patent. Patented Aug. 6, 1918.

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To all whom it may concern:

Be it known that I, HERMAN KRIPPENE, a citizen of the United States, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Cut-Offs; 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 water distribution, and more particularly to a water spout cut-off and clean-out device.

It is one of the objects of the present invention to provide a simple, cheap, practicable and substantial device for use in connection with drain spouts, whereby the flow of water through the drain spout may be led to or cut off from the lower section of the pipe which may be led, for instance, to a cistern where the water may be collected when desired, and further to provide a slip joint whereby the water may be diverted from its general course to the cistern to any other outside discharge point as may be desired.

It is a further object of the present invention to provide a cut-off joint which may be readily wholly removed from the rain spout pipe and which is essentially detached therefrom but adapted to be telescopically fitted upon adjacent ends of the pipe sections so as to provide for the connection of the spaced ends of the pipe to complete a line of flow therethrough when desired, and which may be entirely removed so as to permit the flushing of the lower section of the pipe where it may lead to a cistern, and also to allow a clean-out of the lower section of the pipe, and further permits the insertion of a hose or other flushing means into the upwardly extending portion of the pipe above the cut-off device so that the upper portion may be cleaned in case of necessity.

It is a further object of the invention to provide a cut-off and clean-out device comprising a frame portion which may be rigidly secured to an adjacent house or other wall or support, and to which the contiguous spaced ends of the spout pipes may be readily secured in a firm and substantial manner without the necessity of soldering.

With these and other objects in view, one embodiment of my present invention is disclosed in the following specification and illustrated in the accompanying drawing, in which:

Figure 1 is a perspective view of the improved cut-off and clean-out device as installed in a drain spout system, and

Fig. 2 is a vertical central section through the device showing the cut-off joint set in an inclined position with relation to the piping so as to deflect the water in its flow through the piping to an exterior point of discharge.

While my present device may be applicable to other adaptations, it is shown herein as associated with the lower end of an upper section 2 of the drain spout system, and a lower alined section 3 thereof, this latter section being connectible to a suitable point of distribution, for instance, such as a cistern, not shown, whereby the water coming through the drain pipe may be delivered into the cistern. The present invention resides particularly in the provision of a device adapted to be connected readily to the spaced adjacent ends of the upper and lower spout pipe members, and comprises a suitable rigid member having a frame structure which may comprise a back portion 5 provided with apertures 6 to receive screws, nails, or other fastening devices whereby it may be secured rigidly to the adjacent wall of a building along which the spout pipes may extend, and at the upper and lower ends of the back or frame member 5 there are rigidly connected nipples adapted to be joined to the adjacent ends of the spout pipe members. The ends of the frame 5 are shown as provided with forwardly extending shelf or bracket portions 7, and in the upper of these is provided the nipple 8 which has a slightly tapering or contracting end portion 9, the upper end of the nipple 8 being adapted to fit snugly about the adjacent upper section 2 of the drain pipe which may be soldered thereto if desired to make a water-tight joint. From the lower shelf 7 of the frame there is provided a nipple 10 of suitable proportions which is adapted to fit the adjacent end of the spout section 3 so that these sections are held securely, when attached to the frame or body member 5, in position when the latter is secured to the wall or support upon which it is fastened.

One of the important features of my pres-

ent invention is to provide for the ready connection of the nipples by a pipe or slip joint section to afford direct flow of water from the upper spout section 2 to the lower section 3, and also whereby when desired this flow of water may be interrupted and directed to an outside point of discharge. To that end I have provided an intermediate wholly detached slip joint section 15 of a length permitting it to be slidably telescoped exteriorly at its upper and enlarged end 16 over the contracted and downwardly projecting portion of the upper nipple as at 9 which extends below the top shelf 7. When the slip joint section 15 has been thus assembled at the lower end of the upper nipple, it is then swung inwardly between the flanged sides of the frame 5, if the latter be provided with flanges, to the position shown in Fig. 1, when the lower end 17 of the slip joint section 15 is lowered into the open upper end of the lower nipple 10 thereby establishing direct connection between the upper and lower pipes 2—3. Preferably the relative diameters of the ends of the joint section 15 with respect to their complementary nipples 8 and 10 are adapted to make a good, snug, practically water-tight joint. When it is desired to cut off the flow of water through the spout pipe 2—3, it is only necessary to lift the cut-off section 15 slightly so as to remove it from telescopic engagement with the nipple 10 and swing or tilt it slightly forwardly while still engaging the lower end of the nipple 8, and then lower it so as to permit the lower end 17 of the section 15 to bear against a suitable seat portion 20 provided at the front edge of the lower shelf or plate member 7. To prevent the slipping away or downward of the cut-off section 15 after it is adjusted in its tilted position, as shown in Fig. 2, there may be connected to the spout or formed upon the lower shelf, suitable means to interlock these sections and thus prevent this downward slipping, and a simple form of this device is shown as comprising a piece of wire 18 which is bent rearwardly into the form of an offset hook as at 19, this being adapted to slip over the front edge of the upper end of the lower nipple 10 at the front of the shelf or member 7. The seat 20 against which the spout section 15 rests is preferably formed with forwardly projecting lateral portions 21 to form a guide so as to prevent lateral movement of the spout cut-off section 15.

When the spout is set in alinement with the nipples the member 19 is positioned in any convenient location above and may rest on the lower shelf 7, the spout being rotated if necessary to clear the member of the back.

Obviously I do not desire to be limited to any specific means for securing the interengagement of the cut-off section 15 with the plate 7 or with the lower nipple 10 when it is disposed in the cut-off position, and I have illustrated only a simple and practicable means by which the interengagement of these members is secured.

From the above it will be seen that I have provided a substantial and inexpensively manufactured cut-off device adapted to be readily installed in a practicable and substantial manner, and which involves a cut-off section adapted to be wholly removed from the spout sections 2 and 3 when desired so as to afford free access for clean out and flushing purposes of the adjacent ends of the pipe, and which, being wholly detachable from these devices, may be readily removed without requiring the detachment of any inherent fastening devices.

What I claim is:

1. A drain spout connector and cut-off including a back panel adapted to be secured to a contiguous support and having at its ends integral brackets carrying alined nipples engageable with the ends of sections of a line of spout-piping, side flanges bracing said brackets, and a detached, adjustable cut-off.

2. A drain spout connector and cut-off including a frame adapted to be secured to a contiguous support and having at its ends alined nipples engageable with a line of spout-piping, and a detached connecting joint telescopically adjustably engageable with the adjacent ends of the nipples in one position and adapted to be set in a cut-off position between said nipples, said frame having a lower bracket with an arcuate seat at its front edge to support the lowered joint in cut-off position.

3. A drain spout connector and cut-off comprising a frame having upper and lower brackets with alined nipples for connection with and supporting spout-piping ends, and a cut-off joint slidably and externally telescoping over the upper nipple to permit alined or angular relation thereto while associated, and adapted to telescope internally in the lower nipple to make a substantially tight joint while in connected relation with the nipples, the joint being freely removable to permit cleaning of the pipe.

4. A drain spout connector and cut-off comprising a frame with a back panel and upper and lower brackets having alined nipples for connection with and supporting spout-piping, and a detached cut-off joint having a flared upper end cut diagonally slidably and externally telescoping over the upper nipple to permit alined or angular relation thereto while associated, and adapted to telescope internally in the lower nipple to make a substantially tight joint while in connected relation with the nipples, the lower bracket having a seat at its edge, and

means for supporting the joint in inclined position, and holding it to the seat.

5. A drain spout connector and cut-off comprising a frame attachable to a wall or other support having alined nipples in its ends for connection with and supporting spout-piping, and a freely removable cut-off joint slidably and externally telescoping over the upper nipple to permit alined or angular relation thereto while associated, and adapted to telescope internally in the lower nipple to make a substantially tight joint while in connected relation with the nipples, a seat on the lower end of the frame to engage the lower end of the joint when in inclined cut-off position, and hook means on the lower end of the spout joint to engage the lower portion of the frame to hold the joint to the seat.

In testimony whereof I affix my signature.

HERMAN KRIPPENE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."