Sept. 21, 1948. W. J. COLLISON 2,449,803

CUT IN FITTING

Filed Aug. 9, 1946

FIG. 1.

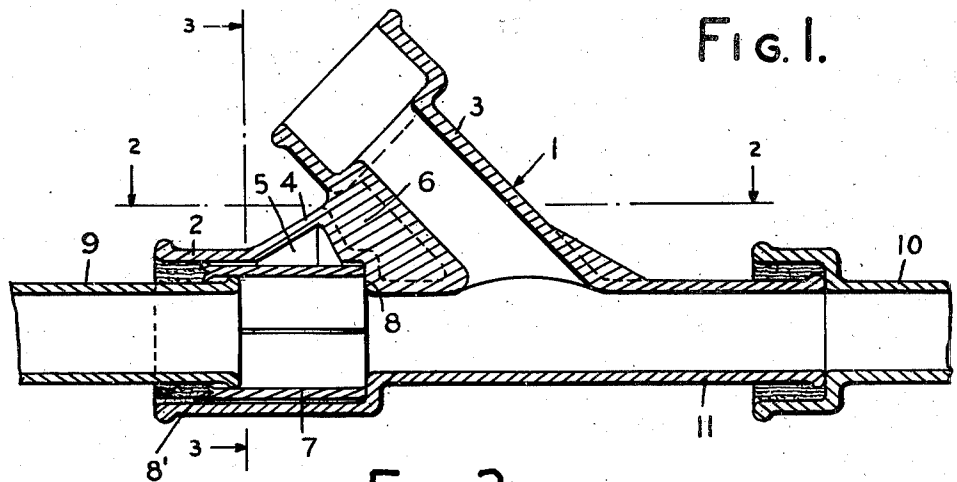
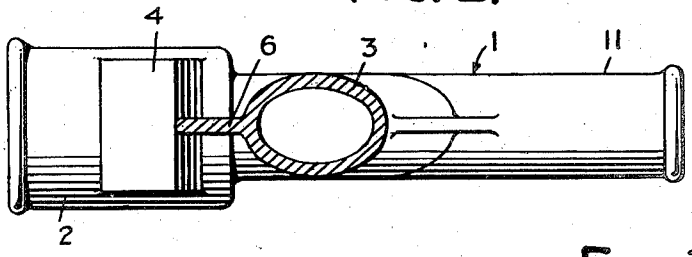


FIG. 2.



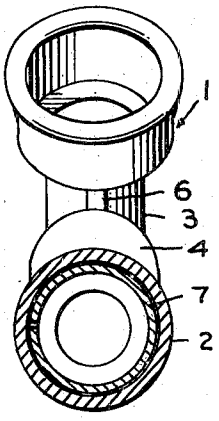


FIG. 3.

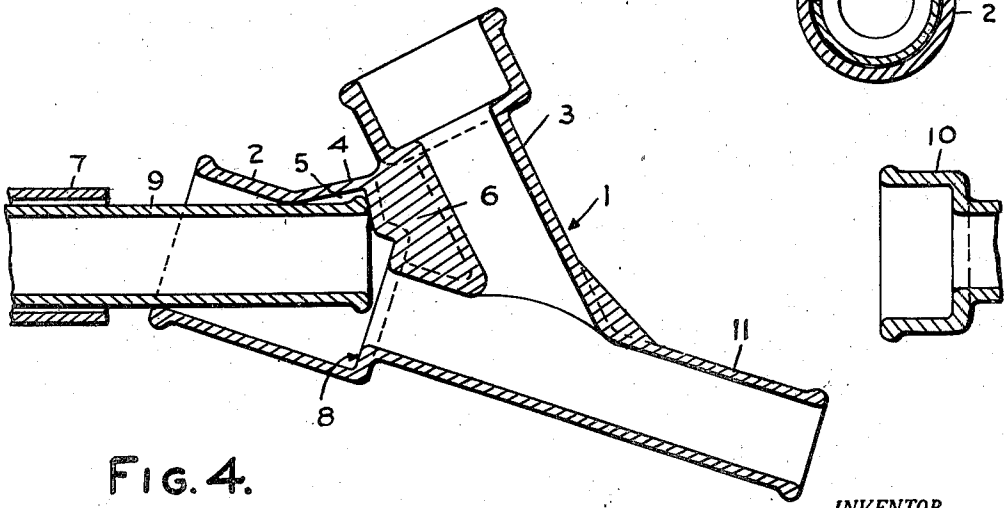


FIG. 4.

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CUTIN FITTING

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1 Claim. (Cl. 285—210)

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This invention relates to a cut-in fixture or cut-in fitting.

An object of the invention is the construction of a novel and efficient fixture or fitting that can be installed in a partition wall without requiring more space than an ordinary standard size fitting.

Another object of the invention is the construction of a novel fitting which when positioned in a wall such as a partition wall will not bulge or show from the outside of the finished wall.

A still further object of the invention is the construction of a novel and efficient cut-in fitting that is adaptable for installation on old plumbing drainage lines, because the operator can cut-in and install quickly and economically in the most difficult places.

With the foregoing and other objects in view, my invention comprises certain novel constructions, combinations, and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claim.

In the drawings:

Figure 1 is a longitudinally vertical section view of the cut-in fitting.

Figure 2 is a horizontal sectional view taken on line 2—2, Figure 1, and looking in the direction of the arrows.

Figure 3 is a vertical sectional view taken on line 3—3, Figure 1, and looking in the direction of the arrows.

Figure 4 is a vertical longitudinal sectional view of the parts shown in Figure 1 in a separated or preliminary assembled position.

Referring to the drawings, in which the preferred embodiment of the invention is illustrated, 1 designates the cut-in fixture which includes a hub portion 2 and a branch portion 3. The hub portion 2 is provided with an oblong shaped outwardly-extending bulge portion 4, in which bulge portion is a triangular shape recess space 5. This bulge portion 4 is entirely within the side edges of hub portion 2 and is tucked away under the throat of the branch portion 3. Upon referring to Figure 2 it will also be seen that the bulge portion 4 is not greater in width than the diameter of the hub portion 2, whereby when the fitting is placed in the wall no bulge will appear in said wall.

A web 6 (Fig. 2) is integral with the oblong bulge portion 4 and the branch portion 3, whereby these parts are greatly strengthened without any disadvantage to the structure.

A split internal sleeve 7 is provided which is placed in the hub portion 2 with the inner end of said sleeve fitting snugly against the annular shoulder 8. The outer end of said split sleeve 7 is provided with an annular V-shape groove 8'. This sleeve 7 is made a little longer than the depth of the hub portion 2. The sleeve enters the fitting and covers recess space 5, and serves

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as a back stop for oakum and lead. The V-shape groove is also provided for expansion when oakum is driven into the hub. The sleeve 7 produces a clean, straight round barrel throughout the fitting.

The peculiar bulge portion 4 with its recess 5 makes it possible to tilt the fitting when installing same as clearly shown in Figure 4.

Pipe 9 enters the fixture, Figure 4, and then the split sleeve 7 is slid along said pipe and enters the hub portion 2. Pipe 10 is placed on the outer end of pipe portion 11 of the fitting 1, Figure 1.

It is to be understood that with this fitting there is no pocket to catch residue or heavy particles when installed horizontally, nor are any special size tools and joint runners necessary. Further, no part of my fitting shows beyond the plastered walls.

While I have described the preferred embodiment of my invention and illustrated the same in the accompanying drawings, certain minor changes or alterations may appear to one skilled in the art to which this invention relates during the extensive manufacture of the same, and I, therefore, reserve the right to make such changes or alterations as shall fairly fall within the scope of the appended claim.

What I claim:

As a new article of manufacture, a cut-in fitting comprising a pipe having a hub at one end and a branch portion partly overhanging said hub, said hub provided within its side edges and on its top with an outwardly-extending transversely-positioned oblong bulge portion, said oblong bulge portion being provided with a pipe-receiving recess, and an integral longitudinally-extending web on the outside of said branch portion and integral with only the middle of the inner face of said oblong bulge portion, substantially as shown and described.

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