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ADJUSTABLE CLEANOUT PLUG

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Fig. 1.

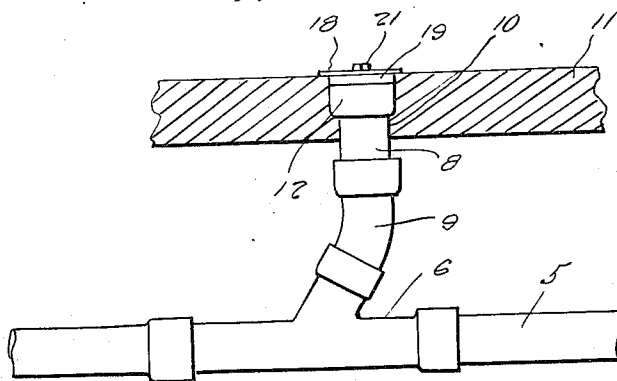
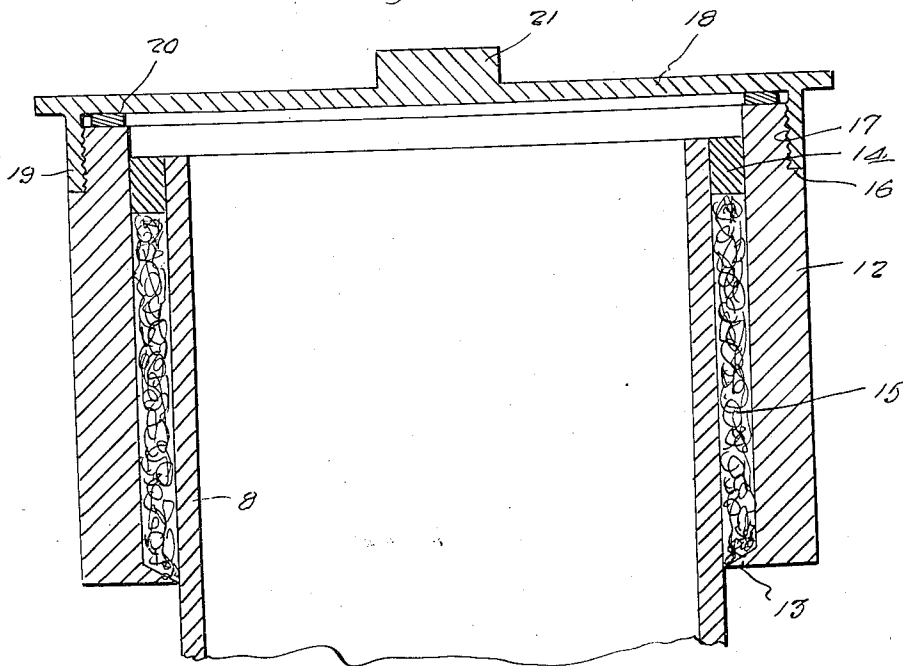


Fig. 2.



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ADJUSTABLE CLEANOUT PLUG

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This invention relates to clean out plugs, and the primary object of the invention is to provide an adjustable slip over clean out plug for permitting ready access to soil or drainage pipes, such as is commonly used in gas and sanitary fittings, for ground work in buildings, without unjointing pipes to clean out pipe runs.

A still further object of the invention is to provide a clean out plug of an adjustable character whereby it may be placed in position either before or after the grade or floor line is finished.

Other objects and advantages of the invention will become apparent during a study of the following description, taken in connection with the accompanying drawings wherein:

Figure 1 is an elevational view of my improved clean out plug clearly illustrating the application of the invention,

Figure 2 is a fragmentary longitudinal sectional view through the upper end of the coupling pipe and my improved clean out plug.

With reference more in detail to the drawings, it will be seen that the numeral 5 indicates a soil or drainage pipe, which may be of conventional construction, and the reference character 6 designates a Y or the like coupling. Pipe sections 8 and 9 are coupled to one another and the section 9 is coupled to a branch of the Y coupling 6, the upper portion of the pipe section 8 extends upwardly toward an opening 10 in the floor 11.

Fitting snugly within the opening 10 of the floor 11 is the cylindrical sleeve or body part 12 which receives the upper end of the pipe section 8 as clearly disclosed in Figure 2. The sleeve 12 is of a greater diameter than the pipe section 8, and said sleeve or body 12 at the lower edge thereof is provided with an inwardly directed flange 13 for closing the space between the sleeve 12 and pipe 8.

As also shown to advantage in Figure 2, the sleeve 12 inwardly from the upper end thereof is lead caulked to the upper end of the pipe section 8 as at 14 for closing the space between the sleeve 12 and the pipe 8 at the upper end of the sleeve as is apparent. In this manner there is formed between the

sleeve 12 and pipe 8 a suitable annular chamber for receiving a packing 15 which packing 15 is preferably of oakum.

At its upper end, the body or sleeve 12 is reduced to provide a shoulder 16, said upper reduced end of the sleeve or body 12 being externally threaded at 17. The cap of the plug is designated by the reference character 18, and inwardly from the periphery thereof the cap 18 is provided with an internally threaded skirt 19 threadedly engaging the reduced portion of the body 12, the lower edge of the skirt resting on the shoulder 16 as is apparent.

Arranged between the cap 18 and the upper edge of the sleeve or body 12 is a suitable gasket 20 forming an air tight joint to prevent gases from escaping into the building. The cap 18 at the center thereof is further provided with an upstanding hexagonal lug 21 adapted to be engaged by a wrench or key whereby the cover may be rotated for removal from the sleeve or body 12.

As shown to advantage in Figure 1 when the plug just described is assembled as shown in Figure 2, the peripheral edge of the cap 18 will rest on the top surface of the floor 11 thus presenting a neat and attractive appearance at the opening in the floor.

In the application of my device, it will be apparent that when the grade line or floor level is established, the body or sleeve 12 may be slipped in position over the pipe section 8 to fit snugly within the floor opening 10, and in the event the floor level 11 is such that the pipe section 8 projects at its free end beyond the uppermost end of the body 12, the extended end of the pipe 8 may be broken off above the lid joint 14, it being preferable to first lead caulk the body 12 to the pipe 8.

After the pipe has so been broken without in any way damaging the pipe below the lead joint 14 the cap 18 may then be threaded in position with the gasket 20 interposed between the cap and adjacent end of the body 12 as herein before fully explained.

A distinct advantage of this invention over prior art devices of like nature is that the adjustable slip over out plug will not diminish the opening of the clean-out connection

but will leave the full size, main line opening. Thus, a uniform fire hose will fit into the soil pipe snugly for flushing out the pipe while such would not be the case were it necessary, as has been found in other such prior art devices to diminish the main line opening.

A still further object accomplished through the medium of this invention is that hubless or butt-end pieces of cast iron pipe may be used and grade levels can be obtained by raising or lowering the plug to meet conditions of construction as has been hereinbefore more fully set forth.

Even though I have herein shown and described the preferred embodiment of my invention, it is to be understood that the same is susceptible to changes fully comprehended by the spirit of the invention, and the scope of the appended claim.

Having thus described my invention, what I claim as new is:

A device of the character described comprising an open ended tubular body member adapted to fit snugly within an opening in a flooring or the like for receiving one end of a drain pipe branch, said body member at its lowermost end being provided with an inwardly directed flange, and said body member at its upper end being caulked to an adjacent portion of the branch, a packing arranged between said body member and said branch and fitted between said flange and the caulking, and a cap adapted to have its edge resting on the floor about said casing, and means for securing the cap to the upper end of said body member, said last mentioned means including a reduced threaded portion formed on said upper end of said body, and said cap having a depending internally threaded skirt threadedly engaging said reduced threaded end of said body, said body and said skirt being of uniform external diameter to provide a smooth surface throughout their combined length to snugly fit in the floor opening, and means on the cap adapted to be engaged by a tool for removing the cover.

In testimony whereof I affix my signature.

ANDREW F. CHERNE.

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