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PIPE SPACING MOLD

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5 Claims. (Cl. 25—128)

The present invention relates to molds used in concrete building construction for the purpose of providing openings in the concrete floor while the concrete is being poured for accommodating pipes, such as the drain or soil pipe of bathroom plumbing.

An object of the present invention is to provide a mold of this character adapted to be placed about a pipe elbow projecting through a floor, and embodying a spacing sleeve within the mold for positioning the pipe concentrically and in spaced relation with respect to the walls of the opening after the concrete has set and the mold removed in order that the pipe will be free from the concrete for the purpose of replacement, when desired without necessitating drilling or breaking of the concrete.

Another object is to provide a mold of this character which will enable the spacing of the soil pipe from the concrete sufficiently to permit the attaching of the closet flange in a quick and convenient manner to the closet bend or soil pipe.

A further object is to provide a mold of this character of simple and practical construction, which may be easily and quickly placed in position and removed after the concrete, relatively inexpensively to manufacture and otherwise well adapted for the purposes for which it is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawing forming part hereof, wherein like numerals refer to like parts throughout, and in which

Fig. 1 is a bottom plan view of the mold and Fig. 2 is a vertical sectional view.

Referring now to the drawing in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a sleeve of relatively heavy gauge sheet metal, which is split longitudinally and having its split edges bent inwardly in spaced relation from the inner walls of the sleeve to form channels 6 for receiving interwound flanges 7 on a slidable locking key 8, the upper end of which is provided with an angular finger grip 9 to facilitate insertion and removal of the key for collapsing the sleeve when desired.

The sleeve is positioned about a pipe 10 to prevent contact of the pipe with the concrete floor 11 as the concrete is poured, the sleeve extending entirely through the floor and in the form of construction illustrated in the drawing the lower edge of the sleeve is provided with an arcuate notch 12 for seating on the inside of the elbow 13 of the pipe to properly support the sleeve in concentric position about the upstanding end of the pipe. The lower end of the sleeve is formed with a tapered edge 14 to support a corrugated spacing sleeve 15 within the outer sleeve 5 between the pipe and the outer sleeve to space the pipe from the walls of the opening formed in the floor after the mold has been removed. The spacing sleeve 15 is formed of sheet metal with its ends positioned in overlapping relation as shown at 16 and secured together by striking out tongues 16 from one overlapped end and passing the same through openings in the other overlapped end and bending the tongues to prevent removal thereof. The upper edge of the outer sleeve is provided with a plurality of spaced outwardly extending lugs 17 for engagement by tongues 18 struck out from the under side of a cover or cap 19 to releasably secure the cap in position on the sleeve by a partial rotary movement of the cap. The central portion of the upper surface of the cap is pressed inwardly as shown at 20 to reinforce and strengthen the cap, the walls of the depression also fitting snugly within the pipe 10 to center the pipe within the mold. The cap and mold completely enclose the open end of the pipe 10 and prevent entrance of trash or particles of concrete during pouring thereof while the building is under construction and until the closet flange has been set and connected to the pipe.

In removing the mold the cap is first removed and the spacing sleeve withdrawn by inserting a hook (not shown) of conventional construction under the lower edge of the sleeve and pulling the same out. The key 8 may then be removed to collapse the outer sleeve 5.

From the foregoing it is believed the details of construction and operation of the device will be readily understood by those skilled in the art, without further explanation.

Having thus described the invention, what I claim is:

1. A pipe spacing mold of the class described comprising a collapsible outer sleeve having a tapered lower edge, and a rigid spacing sleeve supported upon the tapered edge within the outer sleeve, said sleeves being adapted to surround a pipe and cooperating to space the pipe from concrete while the concrete is being poured around the pipe.

2. A pipe spacing mold of the class described comprising a collapsible outer sleeve having a tapered lower edge, a spacing sleeve supported...
upon the tapered edge within the outer sleeve, said sleeves being adapted to surround a pipe and cooperating to space the pipe from concrete while the concrete is being poured around the pipe, lugs projecting outwardly from the upper edge of the outer sleeve, a cap, tongues struck out from the under side of the cap engaging the lugs to releasably secure the cap to the sleeve and an inwardly extending formation on the cap positioned to engage the walls of the pipe to center the mold about the pipe.

3. A pipe spacing mold of the class described comprising a tubular member adapted to surround a pipe, means for spacing the tubular member from the pipe, a removable cap closing one end of the tubular member and a formation on the inner side of the cap adapted to enter and having wedging engagement with an adjacent end of the pipe for securing the tubular member in fixed position with respect to the pipe.

4. A pipe spacing mold comprising a sleeve adapted to surround a pipe, rigid means within the sleeve for spacing the pipe concentrically in the sleeve, and means secured to the sleeve for supporting the sleeve on an open end of the pipe, said last-mentioned means being constructed to close said open end of the pipe when placed in position.

5. A pipe spacing mold comprising a sleeve adapted to surround a pipe, rigid means within the sleeve for spacing the pipe concentrically in the sleeve and a removable cap secured to the sleeve for closing one end thereof and supporting the sleeve on an open end of the pipe when the sleeve is placed in position thereon.

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