

W. H. PRIER.
CLEAN-OUT BOX.
APPLICATION FILED MAR. 22, 1915.

1,174,278.

Patented Mar. 7, 1916.

Fig. I.

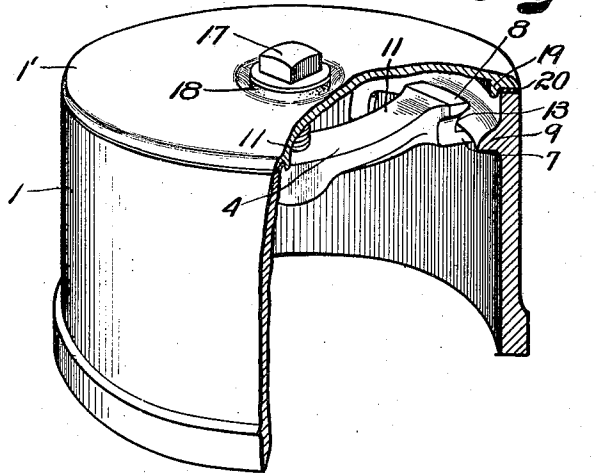


Fig. II.

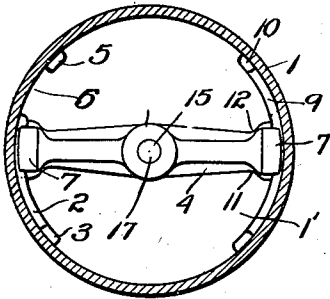


Fig. IV.

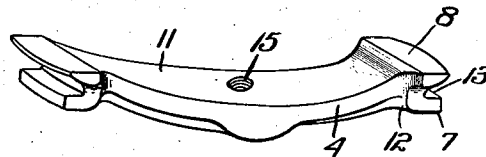


Fig. III.

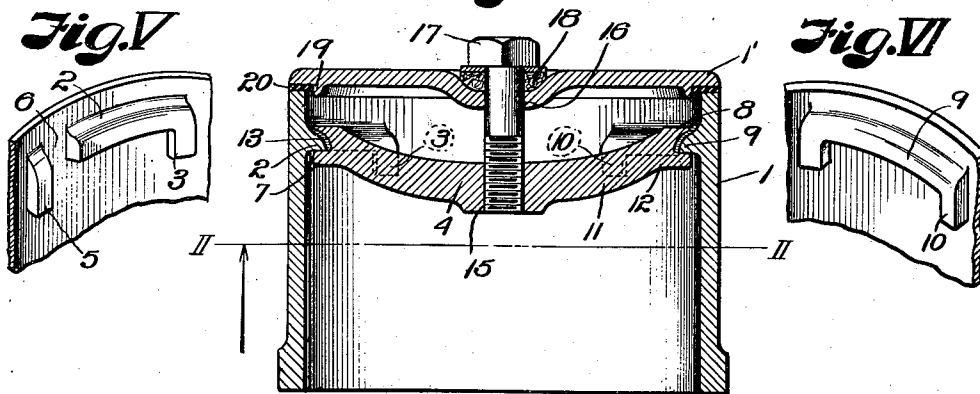


Fig. V.

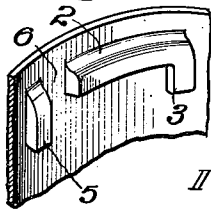
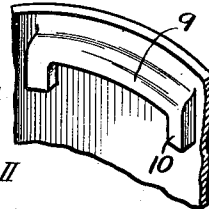


Fig. VI.



WITNESSES:

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CLEAN-OUT BOX.

1,174,278.

Specification of Letters Patent.

Patented Mar. 7, 1916.

Application filed March 22, 1915. Serial No. 16,188.

To all whom it may concern:

Be it known that I, WALTER H. PRIER, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Clean-Out Boxes; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to a clean-out box for soil pipe fittings, floor drains or traps, and more particularly to a cover attachment therefor; the principal object of the invention being to provide means whereby a cover may be easily and quickly applied to or removed from its carrying body and securely attached to its carrying body by other than a direct screw-threaded connection. In accomplishing this object, I have provided improved details of structure; the preferred form of which is illustrated in the accompanying drawings, wherein:—

Figure I is a perspective view of a clean-out equipped with a cover attachment, containing my improvements; a part of the clean-out being broken away to illustrate the cover attachment. Fig. II is an inverted horizontal section of the clean-out on the line II—II, Fig. III. Fig. III is a central, vertical section of the clean-out and cover attachment. Fig. IV is a detail perspective view of the attaching rib. Fig. V is an interior perspective of the clean-out, showing one of the rails for supporting the locking rib. Fig. VI is a similar view showing the opposite rail.

Referring more in detail to the parts:—1 designates a clean-out which, except for the improved features herein described, may be of any ordinary construction, and is adapted for application to a floor drain or soil pipe in the usual manner.

Projecting inwardly from the body of the clean-out 1, near the upper edge thereof, is a rail 2 having a downturned lug 3 at one end for engagement by the attaching rib 4 (presently described), to limit the circular travel of the rib in one direction, and spaced from the opposite end of the rail is a boss 5

which projects inwardly from the face of the box at a sufficient distance from the rail to form a slot 6 for admitting a lower lip 7 of the rib therebetween, while obstructing the passage of a wider upper lip 8 and thereby prevent the escape of the rib into the part of the clean-out below the rail; the boss also serving as a stop to limit the circular travel of the rib in that direction.

Projecting from the inner face of the clean-out, diametrically opposite and in the plane of the rail 2, is a continuous rail 9, having downturned ends 10 that coöperate with the lug 3 and boss 5 in limiting circular travel of the rib on the rails.

The rib 4 comprises a body portion 11, having end heads 12, each provided with the lower and upper lips 7—8, which are spaced to form a slot 13 for receiving the rails 2—9 on the clean-out to hold the rib to the rails; the lower lip at each end of the ribs being adapted for projection through the rail slot 6 in order that the rib may seat in locking engagement on the rails, and the upper lips of greater width than the slot in order that the edges of the upper lips may engage the rail 2 and boss 5 when the rib is placed, and thereby prevent the end of the rib from passing entirely through the rail. The rib 4 is also provided with a central, threaded aperture 15, and fitted on the body 1 is a cover 1' provided with an aperture 16, which registers with the rib aperture when the parts are in place, so that a screw 17 may project through the cap aperture and be threaded into the rib aperture to tighten the cover onto the top of the clean-out.

The cover 1' is preferably cupped about the aperture 16 to receive a packing ring 18, that may surround the screw 17 in order to seal the aperture and prevent escape of air or liquid therefrom, and the cover is also preferably provided, on its under face and adjacent its edge, with a flange 19 for centering the cover on the upper edge of the clean-out; a packing ring 20 being preferably interposed between the cover and box, and retained in place by the flange 19.

In using the clean-out, presuming the parts to be constructed and assembled as described, with the box seated on an ordinary drain, or like pipe, when the cover is to be placed on the box, the rib 4 is first projected into the top of the box, with one end placed against the rail 9, so that the rail

will project into the slot 13 between the lips 7—8 in the head of the rib. The other end of the rib is then lowered into the slot 6 and the rib turned to project the slotted portion of the last named head over the rail 2 so that the rib may be locked there-to, the wide upper lip 8 of the head engaging the rail at the edges of the slot when the rib is lowered into place, to prevent the head of the rib from passing through the slot into the interior of the clean-out. The cover 1' is then seated on the upper edge of the clean-out and the screw 17 projected through the cover aperture and threaded into the aperture in the rib 6; it being apparent that as the screw is threaded into the rib, the rib will be held by the rails 2—9 and the cover drawn down tightly against the upper rim of the clean-out.

Should the rib turn while the screw is being tightened, the heads will engage the lugs 3—10 on said rails and prevent the head of the rib from again entering the slot 6, so that it could be lifted therethrough and escape from its holding position.

It is apparent that with an attachment of this construction, the parts may be held securely together, but may be easily and quickly removed by removing the screw and

lifting the cover and rib from the clean-out.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters-Patent, is:

A clean-out comprising a body, circular in cross section, a rail on the inner face of said body, having down-turned ends, a rail opposite the first named rail having one downturned end, and a boss spaced from the opposite end of said second rail to form a vertical slot, a rib having transversely slotted ends adapted for guided travel along said rails, and forming upper and lower lips, the lower lips being adapted for projection through said rail slot and for stopping engagement with the downturned ends of said rails and the said boss, and the upper lips being of sufficient width to prevent their passage through said slot, a cover for said body and a screw adapted for projection through said cover and for anchorage in said rib.

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

WALTER H. PRIER.

Witnesses:

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