

UNITED STATES PATENT OFFICE

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LATCHING MEANS FOR THE COVERS OF LAUNDRY APPARATUS

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This invention relates to laundry apparatus of that type known as curb extractors.

An important object of the invention is to provide latching means for the cover for a curb extractor which will permit the cover to be readily applied to and removed from the machine without damage to the operator or to the clothing being treated.

This object I attain by the construction shown in the accompanying drawing, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

Figure 1 is a vertical sectional view through the upper end of a curb extractor showing a cover secured thereto in accordance with my invention;

Figure 2 is a plan view of the cover in applied position;

Figure 3 is a sectional view on the line 3—3 of Figure 2.

Referring now more particularly to the drawing, the numeral 10 generally designates a cover of substantially the same diameter as the frame opening 11 of the curb extractor and having at its sides an upstanding rim 12, the upper end of which has an out-turned flange 13 adapted to seat upon the upper surface of the curb of the extractor and support the lid. This rim is provided at circumferentially spaced points with openings 14 through which extend the outer ends of radial latch bars 15, the inner ends of which are extended through guides 16 carried by the cover. Each latch bar 15 is provided intermediate the rim and the guide with which it is associated with an upstanding lug 17. The cover is provided centrally with a handle 18 forming a rotatable mounting for an operating disk 19. This operating disk has spirally extending slots 20 corresponding in number and arrangement to the latch bars and is provided with a small handle 21 whereby it may be rotated. As this disk is rotated the latch bars, the lugs 17 of which project into the slots 20, are either projected or retracted, depending upon the direction of rotation. The handle 21 which rests upon the cover 10 when the latch bars 15 are in retracted posi-

tion extends through the operating disk and is constantly urged downwardly by a spring 22. The lower end of this handle is in the form of a bolt and enters an opening 23 in the cover 10 when the latch bars are fully projected.

It will be obvious that in order to apply the cover, it is simply necessary to place the same in position with the flange 13 seated upon the curb of the extractor and rotate the disk 19 to cause the latch bars to project when the outer ends thereof will engage under the curb and coast with the flange to prevent vertical displacement of the cover.

At this time, the lower end of the handle 21 will be aligned with the opening so that when the handle is released, it will come into latching engagement with the cover and accidental displacement of the latch bars is thereby prevented. To release the cover, it is simply necessary to elevate the handle 21 slightly and then reverse the rotation of the control disk.

Since the construction hereinbefore set forth is capable of a certain range of change and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

Latching means for a curb extractor cover having a plate adapted to engage the upper surface of the rim of the curb and support the plate therefrom, the plate being provided with an opening, a plurality of projectible latch bars for engaging beneath the rim of the curb, a disc rotatable upon the plate, connections between the disc and the latch bars to permit the turning of the former to shift the latter, and a handle for turning the disc and engaged in the opening in the plate when the bars are in extended position, said handle being slidably directed through the disc.

In testimony whereof I hereunto affix my signature.

JOHN MOSES COFFEE.