

F. WILCOX.
EJECTING MEANS FOR WASHBOILERS.
APPLICATION FILED JAN. 22, 1912.

1,032,095.

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Fig 1.

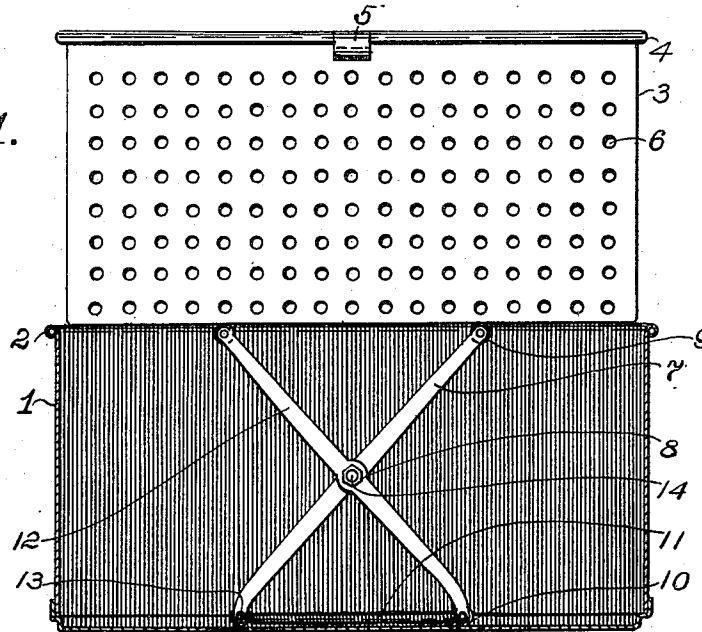


Fig. 2.

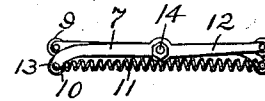
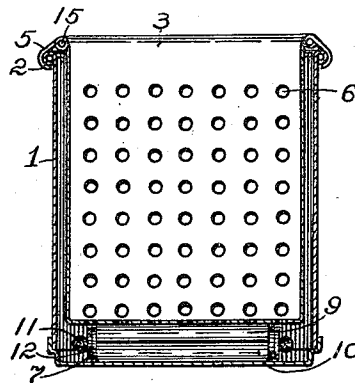
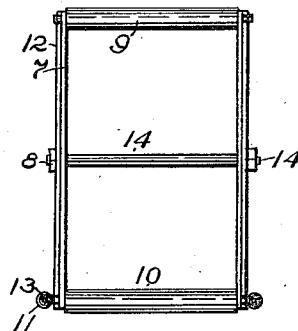


Fig. 4.

Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

FRANK WILCOX, OF CEDAR FALLS, IOWA.

EJECTING MEANS FOR WASHBOILERS.

1,032,095.

Specification of Letters Patent.

Patented July 9, 1912.

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To all whom it may concern:

Be it known that I, FRANK WILCOX, a citizen of the United States of America, and a resident of Cedar Falls, Blackhawk county, Iowa, have invented certain new and useful Improvements in Ejecting Means for Washboilers, of which the following is a specification.

My invention relates to improvements in ejecting-means for wash-boilers, and the objects of my improvements are these; first, to provide a removable drainable interior container for a wash-boiler, and second, to furnish accessory reactive ejecting-means for elevating said container with its contents from the boiler. These objects I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which:

Figure 1 is a front elevation of said drainable container as supported on said reactive ejecting-means in a wash-boiler, the latter being shown in central vertical longitudinal section. Fig. 2 is a vertical transverse section of said boiler, showing said container secured therein upon the compressed reactive resilient ejecting-means, the container also being shown in vertical transverse section. Fig. 3 is an end elevation of said resilient reactive ejecting means, and Fig. 4 is a front elevation thereof.

Similar numerals of reference designate corresponding parts throughout the several views.

The numeral 1 denotes an ordinary wash-boiler with its cover removed.

The numeral 3 denotes a clothes-container of somewhat smaller dimensions but like shape, and adapted to be received in said boiler, with sufficient space therebetween to permit of the ready removal of the container, and also to allow the drainage from the container to flow without splashing into the boiler. The container as shown, comprises a hollow body provided with a plurality of orifices 6 for drainage purposes, and said orifices are located in its sides and bottom. The container has a rolled or beaded upper edge 4, having in the middle of each long side a portion of the beading removed to permit of a clip 5 being hinged on a reinforcing rod 15 in the beading. The clips 5 have hooked ends which may

be removably secured about the beaded edge 2 of the boiler 1 when the container 3 has been placed in the boiler as shown in Fig. 2.

My reactive ejecting-device comprises two pairs of connected cross-bars 7 and 12. These pairs are medially pivotally mounted on each end of a center cross-rod 14 on the diminished extremities thereof, and removably secured thereon by nuts 8. The upper ends of said bars 7 and 12 are connected by means of the rollers 9 whose diminished ends are pivoted in orifices in the ends of the bars. Like rollers 10 connect the lower ends of the bars. The lower parts of said cross-bars 7 and 12 on each side have projecting pins 13, to which are secured the tension springs 11. Said reactive ejecting-device is first placed in the boiler 1, with the lowermost rollers 10 resting on the bottom, and then the container 3 is placed upon the spread-apart upper rollers 9, as shown in Fig. 1. The container is then to be forced down into the boiler into the position as shown in Fig. 2, compressing the ejecting-device together and stretching and placing under tension the springs 11. The container being held down in this position, the clips 5 are secured about the beading of the boiler.

To reverse the process, the clips 5 are disengaged from the boiler 1, when the reaction of the springs 11 will spread apart the rollers 9 and 10, lifting the container to its first position, the water therein draining away back into the boiler, after which the container may be removed with its contents.

It is to be understood that my invention covers within the scope of its protection and mechanical principles other or similar devices which properly are contained therein or are equivalents thereof.

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

1. The combination with a wash-boiler, of a removable receptacle of like form contained therein, and yieldable resilient means located therebetween, compressible by pressure upon said receptacle and adapted to react to elevate the receptacle in the boiler.

2. The combination with a wash-boiler, of a removable receptacle therein provided with drainage means, and yieldable resilient

means engaging said receptacle, compressible by pressure thereupon and adapted to react to elevate the receptacle in the boiler.

3. The combination with a wash-boiler, of
5 a removable receptacle therein provided with a plurality of drainage apertures, means for detachably securing the said receptacle to the boiler when contained therein, and yield-
10 able resilient means located between the bottom of the boiler and the under part of the receptacle, compressible and adapted to react to elevate the receptacle.

4. The combination with a wash-boiler, of
15 a removable perforated receptacle seated therein and spaced apart therefrom, reactive ejecting-means for said receptacle, comprising relatively movable bodies pivoted together, and elastic connections between said
20 bodies tending to draw them together yieldingly.

5. The combination with a wash-boiler, of a perforated receptacle seated therein removably, means for detachably securing said receptacle to said boiler, reactive eject-
25 ing-means supporting said receptacle, said ejecting-means comprising relatively movable connected bodies, and means for connecting them together resiliently and yieldingly.

6. The combination with a wash-boiler, of a removable receptacle seated therein, means for detachably securing said receptacle to said boiler in a certain position,
30 reactive ejecting-means supporting said receptacle, comprising pairs of crossed bars pivoted together medially, and a yieldable resilient connection between the members of
35 such pairs, adapted to draw the members together yieldingly to elevate the receptacle.

40 7. The combination with a wash-boiler, of

a receptacle seated removably therein, and reactive ejecting-means resting upon the bottom of the boiler and movably supporting said receptacle, said ejecting-means comprising pairs of crossed bars pivoted on the ends of a transverse body, and a yieldable
45 resilient connection between the bars adapted to draw them together to lift the receptacle in the boiler, yieldingly.

8. The combination with a wash-boiler, of
50 a perforated receptacle seated therein removably, and reactive ejecting-means upon the bottom of the boiler and movably supporting said receptacle, said ejecting-means comprising pairs of crossed bars pivoted on the ends of a transverse bar, said pairs of
55 crossed bars being spaced apart, and tension springs connecting the lower members of each pair to each other.

9. The combination with a wash-boiler, of
60 a perforated receptacle seated therein removably, and reactive ejecting-means seated removably upon the boiler bottom and movably supporting the receptacle, said ejecting-means comprising pairs of crossed-
65 bars pivoted on the ends of a transverse bar and spaced apart from each other, anti-friction rollers having their ends journaled on the oppositely-located ends of said
70 pairs of bars, and a yieldable resilient connection between the members of each pair of bars adapted to react when put under tension to automatically elevate said receptacle when the tension is released.

Signed at Waterloo, Iowa, this 2nd day
of Jan., 1912.

FRANK WILCOX.

Witnesses:

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