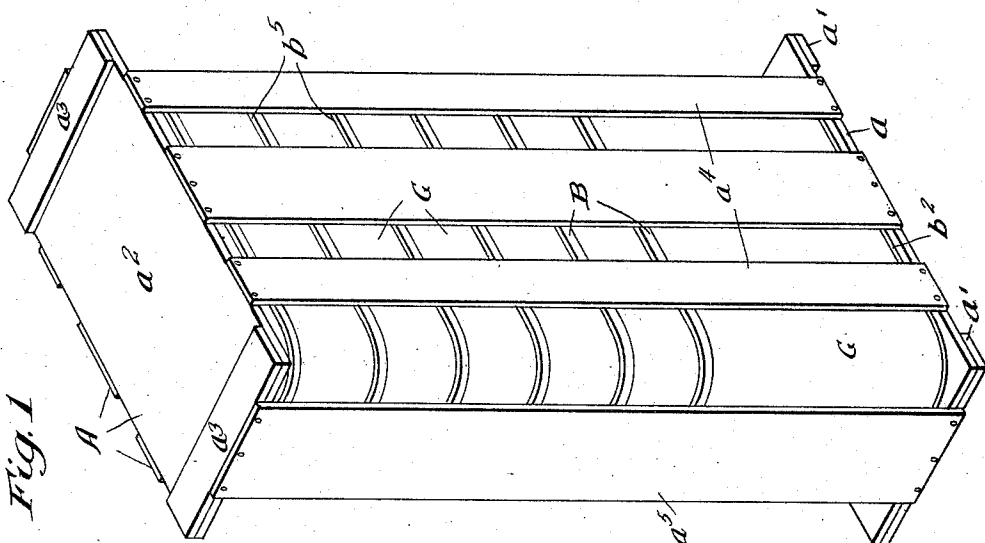
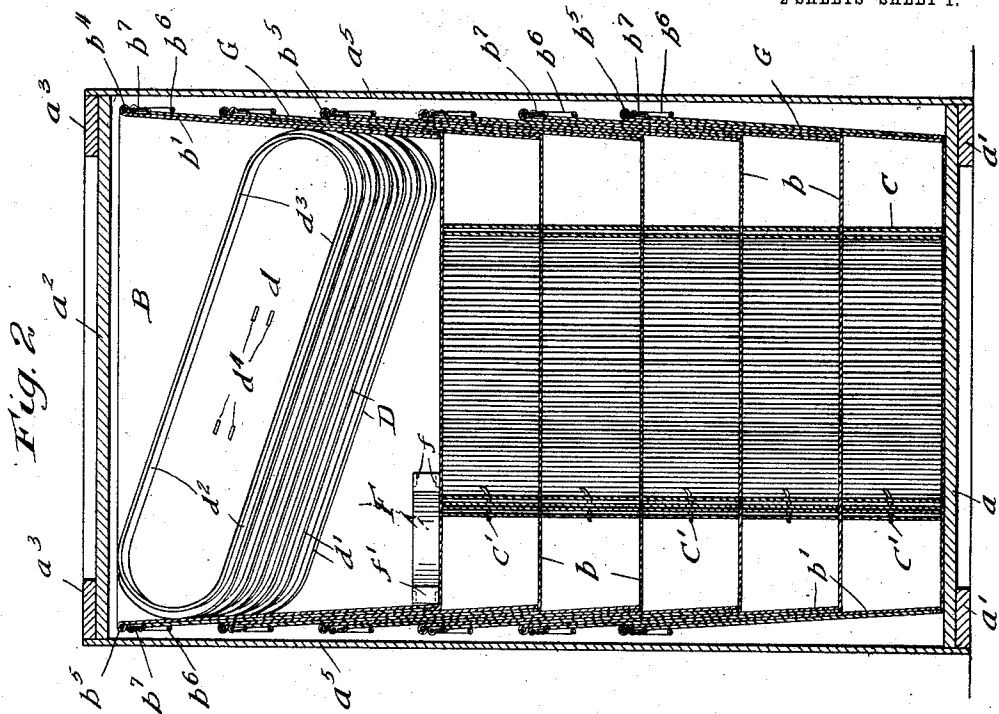


J. DISTER.
CRATED WASHBOILERS.
APPLICATION FILED MAR. 18, 1909.

1,015,380.

Patented Jan. 23, 1912.

2 SHEETS—SHEET 1.



Witnesses:

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Attorneys

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2 SHEETS—SHEET 2.

Fig. 3

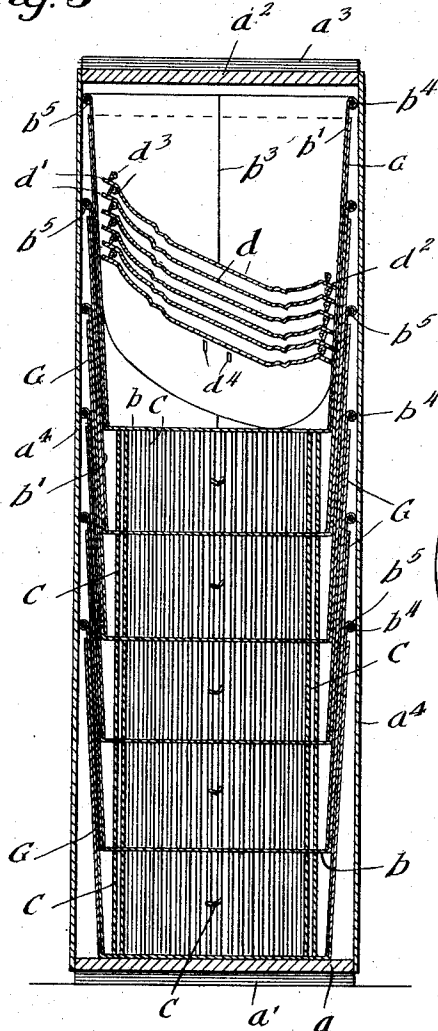


Fig. 4

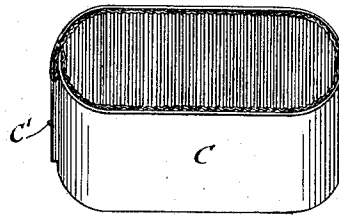


Fig. 5

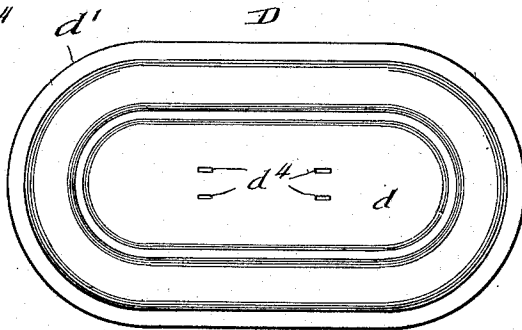


Fig. 6

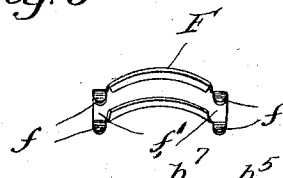
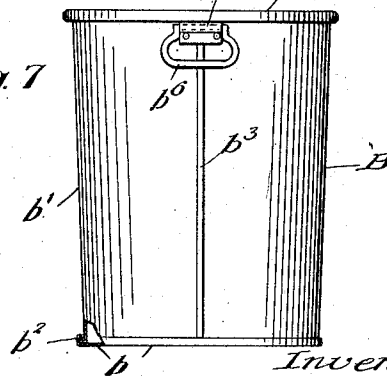


Fig. 7



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UNITED STATES PATENT OFFICE.

JOSEPH DISTER, OF HAMILTON, OHIO, ASSIGNOR TO AMERICAN CAN COMPANY, OF
NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

CRATED WASHBOILERS.

1,015,380.

Specification of Letters Patent.

Patented Jan. 23, 1912.

Application filed March 18, 1909. Serial No. 484,178.

To all whom it may concern:

Be it known that I, JOSEPH DISTER, a citizen of the United States, residing in Hamilton, in the county of Butler and State of Ohio, have invented a new and useful Improvement in Crated Washboilers, of which the following is a specification.

My invention relates to improvements in the construction of wash boilers crated for shipment or storage.

Heretofore wash boilers having the customary dome shaped covers have been made with upright sides, the cover of each boiler being placed inside the boiler for shipment, and the boilers are either crated separately or two or more of them are crated together in a crate equaling the aggregate bulk of the several boilers therein. And as a consequence, the freight charges on such boilers are comparatively high due to the great bulk, and also to the added weight in the large amount of crating necessary, and frequently also the boilers are injured in shipment, especially where it is attempted to ship a number of boilers of the larger sizes in a single crate as the boilers give and can give no mutual support to each other. Another objection to the old construction is the large amount of store space required for carrying in stock a full line of boilers of different sizes.

The object of my invention is to provide an improved construction of wash boiler and cover therefor specially adapting a number of the boilers and covers for cooperation with each other in crating for shipment and with the crating devices in order to reduce the aggregate bulk and weight of the crated boilers, and the freight charges thereon, and at the same time reduce the liability of injury in shipment, by reason of the crated boilers mutually supporting each other. And a further object is to materially reduce the store space required, to enable the merchant to carry a full line of boilers of different sizes.

My invention consists in the means I employ to practically accomplish this object or result as herein shown and described, and more particularly specified in the claim.

In the accompanying drawing forming a part of this specification, Figure 1 is a perspective view of a crate of wash boilers em-

bodying my invention. Fig. 2 is a central vertical longitudinal section. Fig. 3 is a vertical cross section and Fig. 4 is a detail perspective view of one of the internal crating devices. Fig. 5 is a detail plan view of one of the covers showing the removable handle detached. Fig. 6 is a detail perspective view of one of the removable handles of the covers. Fig. 7 is an end elevation partly in section.

In the drawing, A represents the external crating device, the same being preferably constructed of wood, and comprising a bottom a , having cross cleats a^1 at the ends thereof, a top a^2 having cross cleats a^3 at the ends thereof, upright side slats a^4 and end slats a^5 all nailed to the top and bottom members.

B B are the boilers, preferably six in number, each having a flat bottom b , and substantially upright but slightly flaring body b^1 secured to the bottom b by an externally projecting double seam b^2 , and provided with externally projecting lock side seams b^3 at the ends, and also provided at the upper edge with the customary stiffening wire b^4 and roll b^5 embracing said stiffening wire, and with hinged or folding handles b^6 secured to the body of the boiler at the ends thereof by hinge ears b^7 secured by rivets to the body, and also by the pivot portion of said ears soldered to and fitting snugly against and under the external roll of the body.

The flaring bodies of the boilers enable them to nest within each other to the extent preferably of about three-quarters of their height, and preferably six boilers are assembled or nested for shipment in a single crate, although the number may be increased or diminished as required or desired.

C C are the internal crating devices, the same consisting each preferably of a band or loop of flexible corrugated strawboard, placed edgewise inside the bottoms of all the boilers excepting the uppermost one to limit the extent to which the boilers may nest or telescope one within another, and thus prevent them from jamming or wedging together so tightly as to injure each other or to prevent their ready separation. The ends of the strip of corrugated strawboard of which the loop or band is formed are secured together preferably by a wire C^1 inserted through the lapping ends, and

then the ends of the wire twisted as indicated in the drawing. As the loop or band of corrugated strawboard fits flat at its lower end against the bottom of the boiler, and its upper end fits flat against the bottom of the next adjacent boiler above, there is no tendency for the loop or band C to tilt, and all strain comes upon it longitudinally of its corrugations, so that the weight of a person standing in one of the boilers will not crush or collapse the corrugated strawboard band C between such boiler and the one next below it.

D are the boiler covers, each having the customary dome shaped central portion d , rim d^1 and flange d^2 furnished with an internally rolled lower edge d^3 . The covers D of all the boilers are stacked inside the uppermost boiler in a longitudinally and transversely inclined position, the flanges d^2 of the boilers being preferably about one half inch wide or so proportioned that the uppermost corner portion of the covers will not extend above the upper edge of the uppermost boiler in which the six covers of all the boilers are stacked. To enable the covers for all the crated boilers to be thus contained within the uppermost boiler of the crate, the handles F of the covers are made detachable, and placed in the bottom of the uppermost boiler beneath the lowermost cover. The handle of the lowermost cover is preferably applied thereto as the longitudinally and transversely inclined position of the covers leaves ample room for the handle of the lowermost cover. It is an advantage to have the removable handle F applied to the lowermost cover as it thus furnishes an explanation to the hard-

ware dealer of the exact way the removable handles are to be applied to the covers.

The covers D are furnished with slots d^4 to receive the integral attaching lips f of the base members f^1 of the handles F, these attaching lips f being bent or clenched down at an angle after they are inserted through the slots in the cover to removably secure the detachable handles to the covers. The bodies of each of the boilers B are preferably surrounded by snug fitting paper wrappers or protecting envelopes G of the same shape as the bodies.

I claim:—

The combination with an external crate, of a plurality of slightly taper body wash boilers nested together one within another within said crate, with their taper bodies mutually embracing and supporting each other, and a plurality of crating devices interposed between the bottoms of adjacent boilers to prevent their wedging together, consisting each of a longitudinally rigid and unyielding corrugated strawboard loop with the corrugations extending perpendicularly to the bottoms of the boilers to take the strain of one boiler against the other, the ends of said loop being fastened together and the edges thereof engaging the bottoms of adjacent boilers, and a plurality of covers for said boilers placed one on top of another in a transversely and longitudinally inclined position within the uppermost boiler, substantially as specified.

JOSEPH DISTER.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."