C. P. ROCKWOOD.

PAIL.

APPLICATION FILED DEC. 26, 1917.

1,406,284. Patented Feb. 14, 1922.

Fig. 1.

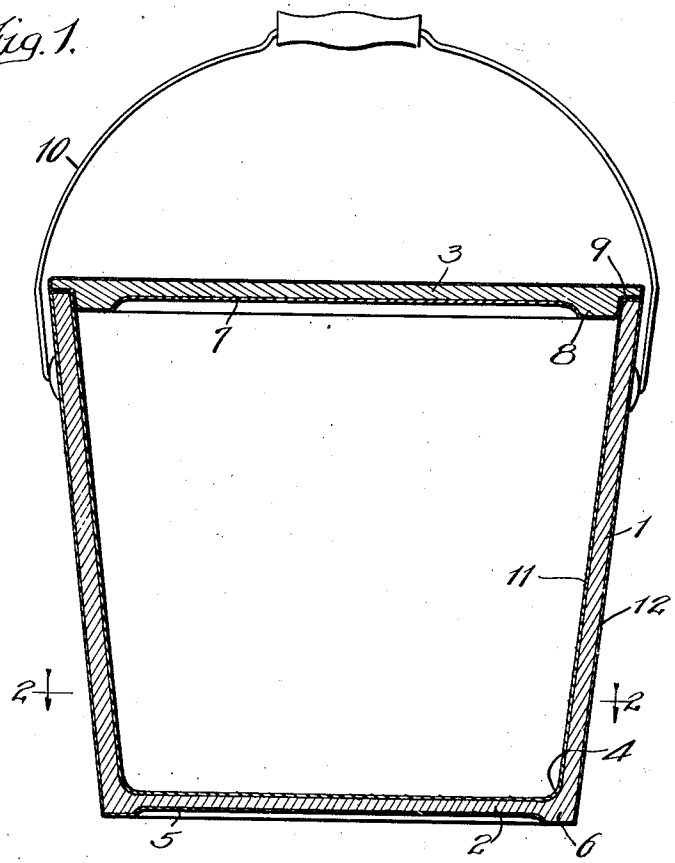
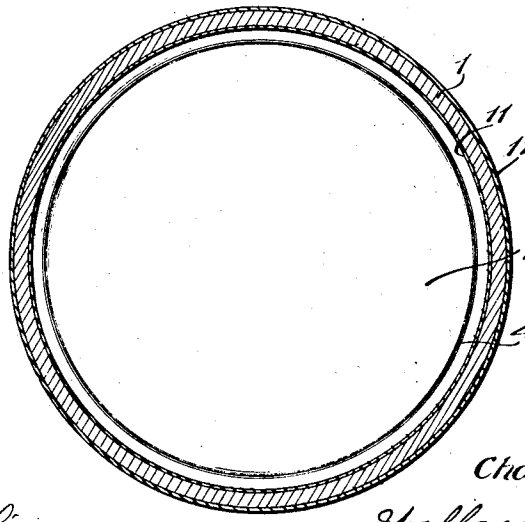


Fig. 2.



Witnesses:
W. E. Kilroy
Harry R. L. White

Inventor:
Charles P. Rockwood
By Wallace R. Lane
Attys.

UNITED STATES PATENT OFFICE.

CHARLES P. ROCKWOOD, OF GENEVA, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO AMERICAN SEAMLESS CONTAINER COMPANY, OF ST. CHARLES, ILLINOIS, A CORPORATION OF DELAWARE.

PAIL.

1,406,284. Specification of Letters Patent. **Patented Feb. 14, 1922.**

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To all whom it may concern:

Be it known that I, CHARLES P. ROCKWOOD, a citizen of the United States, residing at Geneva, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Pails, of which the following is a specification.

This invention relates to compressed fibrous pulp pails or similar containers, particularly to those provided with a coating, and to the method of treating the same in applying such coating.

Among the objects of this invention is to so treat a compressed fibrous pulp pail or similar vessel that the durability and strength of the vessel will be greatly increased, and whereby to obtain a seamless pail which will be effective as a temperature resisting container for acids, milk and other contents that should retain certain temperatures; further to provide a more efficient, neat, compact, economical, and attractive pail; further to provide a fibrous pulp pail with a coating of metal on its interior and exterior surfaces; and such further objects, advantages, and capabilities, as will later more fully appear.

My invention further resides in the combination, construction and arrangement of parts illustrated in the accompanying drawing and described in the specification, and while I have disclosed therein a preferred construction of my improved pail and method of forming such, I desire the same to be considered as illustrative only and not as limiting the scope of my invention.

Referring to the drawings:

Fig. 1 is a vertical sectional view taken through the center of the pail.

Fig. 2 is a horizontal sectional view through Fig. 1.

In the drawings, my improved pail or similar vessel is formed by pressing the same into shape from fibrous pulp in a suitable press, and as illustrated in the drawing comprises the side walls 1, the bottom 2, and the cover 3, the juncture between the side walls 1 and the bottom 2 being provided with the integral fillet 4, whereby to further strengthen the pail at this point. The bottom of the pail is depressed as shown at 5, the depth of such depression being such as to give the required thickness for the bottom, and also to result in the annular projection 6, which provides additional strength for the pail at the marginal portion of the bottom. The cover 3 is provided on its under surface with the depression 7, which is of such depth as to give the required thickness for the cover, and to also form the annular shoulder 8, which shoulder performs the double function of preventing the cover from being crushed inwardly from the top, and also providing additional strength whereby the pails may be suitably stacked one upon another. The cover is also provided around its lower marginal edge with the inset shoulder 9, which as shown in Fig. 1 is adapted to fit over the inner edge of the rim of the pail. The pail may also be provided with any form of suitable handle 10 as desired.

This pail as will be readily understood, due to the fact that it is made of pulp, will be largely of an insulating nature, and would to a great extent resist the transfer of heat therethrough when heated materials are placed therein. However, the pulp in this unprotected condition would not be able to successfully resist the action of acids, milk, and other liquids, and in order to enable it to suitably resist such contained materials, I propose coating the pail both on the inside and out with a metal coating, the inner coating being designated in Fig. 1 by 11, and the outer coating by 12, it being understood that the same will extend entirely over both sides of the bottom, and the cover will also be similarly coated on its upper and lower surfaces. The method of applying this coating to the pail is as follows: I first bring zinc to a molten state, and then by use of any apparatus suitable for this purpose, I blow this melted zinc with compressed air against the surface of the pail. After coating to a sufficient thickness the pail and the cover, I then galvanize the pail, or if desired, may tin or copper it according to the proposed contents of the pail. It will thus be seen that I have provided a pail in which the body portion is formed of fibrous pulp with its inherent insulating qualities, and which pail, due to its metallic lining, will thus form a very effective temperature resisting container for acids, milk, and other contents that should retain certain temperatures.

Having now described my invention, I claim—

1. A compressed fibrous pulp pail or similar vessel having its inner surface covered

with a seamless metal lining, whereby to render said pail a temperature resisting container for acids, milk, and other contents that should retain certain temperatures.

2. A compressed fibrous pulp pail or similar vessel provided with a metal coating both on its interior and exterior surfaces, whereby to render said pail a temperature resisting container for acids, milk, and other contents that should retain certain temperatures.

3. A compressed fibrous pulp pail or similar vessel having its inner surface covered with a metal lining, whereby to render said pail a temperature resisting container for acids, milk, and other contents that should retain certain temperatures, said lining being seamless and intimately connected throughout its extent with the said inner surface.

4. A compressed fibrous pulp pail or similar vessel provided with a metal coating both on its interior and exterior surfaces, whereby to render said pail a temperature resisting container for acids, milk, and other contents that should retain certain temperatures, said metal coating being intimately connected through its area with the surface of the pail.

5. A compressed fibrous pulp pail or similar vessel having its inner surface covered with a metal lining, whereby to render said pail a temperature resisting container for acids, milk, and other contents that should retain certain temperatures, and a further metal coating on the exterior of said first mentioned lining.

6. A compressed fibrous pulp pail or similar vessel provided with a metal coating both on its interior and exterior surfaces, whereby to render said pail a temperature resisting container for acids, milk, and other contents that should retain certain temperatures, and a further metal coating on the exterior of each of said first mentioned coatings.

7. A compressed fibrous pulp pail or similar vessel, having a lining of zinc covering the interior thereof.

8. A compressed fibrous pulp pail or similar vessel, a lining of zinc covering the interior of the pail, said zinc lining being itself in turn covered with a further coating of metal such as zinc, tin, copper, or the like.

In witness whereof, I hereunto subscribe my name to this specification in the presence of two witnesses.

CHARLES P. ROCKWOOD.

Witnesses:
CHAS. L. HUNT,
LILLIAN LANDMARK.