

C. F. JENKINS.
PAPER BOTTLE.
APPLICATION FILED SEPT. 17, 1908.

949,036.

Patented Feb. 15, 1910.

Fig. 1.

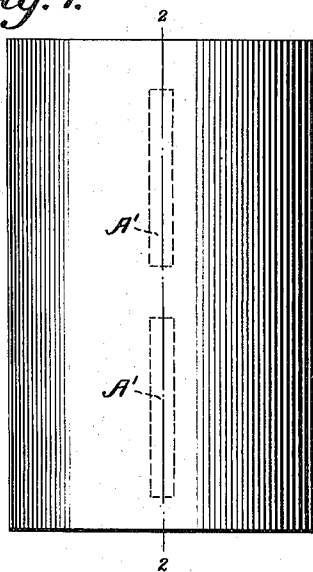


Fig. 2.

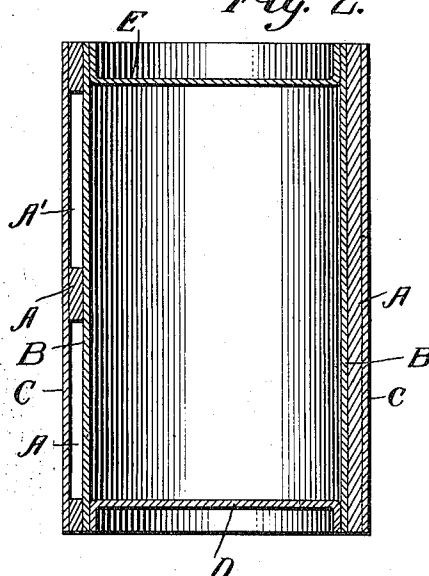


Fig. 3.

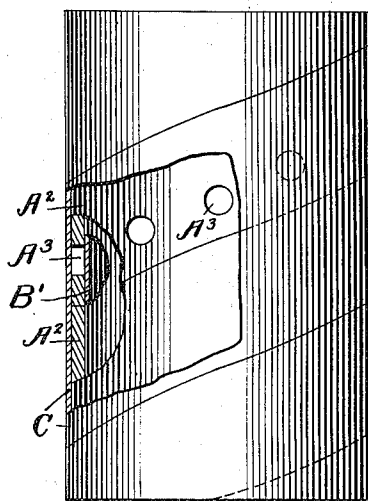


Fig. 4.

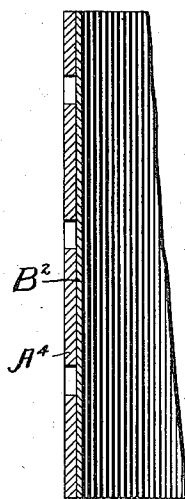
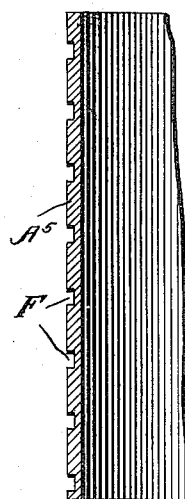


Fig. 5.



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Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES FRANCIS JENKINS, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR,
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PAPER BOTTLE.

949,036.

Specification of Letters Patent.

Patented Feb. 15, 1910.

Application filed September 17, 1908. Serial No. 453,514.

To all whom it may concern:

Be it known that I, CHARLES FRANCIS JENKINS, citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Paper Bottles, of which the following is a specification, reference being had therein to the accompanying drawing.

The object of this invention is to provide a paper milk bottle or the like, adapted to show at a glance and while the bottle is closed, the quantity of liquid contained therein, thus giving such bottle an advantage usually possessed by glass bottles alone.

A further object is to accomplish this result by means which will not appreciably increase the cost of the bottles, this being indispensable to commercial success.

With these objects in view, the lateral walls of the bottle are made heavy enough to give the necessary rigidity, but certain portions are made thin so that light may be transmitted, and usually the thin parts are treated with paraffin, making them less opaque.

In the accompanying drawings, Figure 1 is a side view of a bottle or receptacle constituting one of various embodiments of the invention. Fig. 2 is a section on the line 2-2, Fig. 1. Fig. 3 is a side view of a modified bottle, parts being broken away. Fig. 4 is a partial section similar to Fig. 2, showing a modified bottle wall. Fig. 5 is a like section showing another construction of such wall.

In Figs. 1 and 2, the bottle is shown as having its walls made up of a heavy and stiff central layer A provided with vertically arranged slots A', a thin lining layer B, and a thin jacket layer C, the thin layers consisting of paper adapted to be rendered nearly transparent by paraffin and both being usually cemented to the intermediate layer. The bottle has any suitable bottom D and closure E. Obviously, the height of the contents of the bottle may be seen through the slots, and it is also plain that the invention is not limited to providing slots on one side only of the bottle, nor to having the slots more than one, on each side, although two are shown, one above the other.

Fig. 3 shows a bottle made up of spirally wound strips, the intermediate heavy strip A² being provided with a series of holes A³ and the thin inner and outer strips B', C' being arranged to break joints with the intermediate strip.

Fig. 4 shows a section of the lateral wall of a two-ply bottle, the wall consisting of a heavy layer A⁴ and a thin lining layer B². Fig. 5 shows in like manner a form in which the wall consists of a paper sheet A⁵ provided at intervals with depressions F, making it thin at these points.

It is evident that other modifications may be made, the essential feature being that the wall shall be heavy enough to give stiffness and shall have portions at various heights thin enough to secure the desired degree of transparency.

What I claim is:

1. A bottle having thick imperforate paper walls with relatively small portions of the paper made thinner than the main portion and adapted to permit the contents to be seen therethrough at different heights, said thin portions being integral with adjacent portions of the body wall.

2. A bottle having as constituents of its lateral wall a primary layer of paper and a secondary layer of paper cemented throughout to the first, one of said layers being cut away exposing the other at points varying in height, the portions thus exposed being transparent.

3. A paper bottle having at different heights relatively small paper portions of its lateral wall thinner than the rest and saturated with paraffin.

4. A paper bottle having as constituents of its lateral wall a heavy opaque paper layer and a light transparent paper layer, the heavy layer being cut away to expose the light layer at various heights.

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

CHARLES FRANCIS JENKINS.

Witnesses:

BEATRICE DAILEY,
CHAS. W. BLACKWOOD.