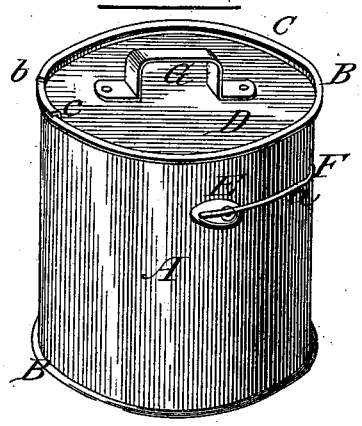
J. F. ROSS.

Sheet-Metal Package.

No. 209,987. Patented Nov. 19, 1878.

Fig. 1.



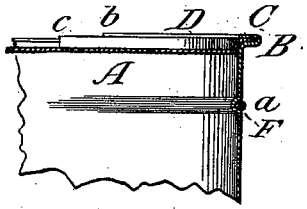


Fig. 3.

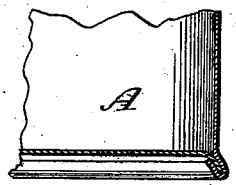


Fig. 4

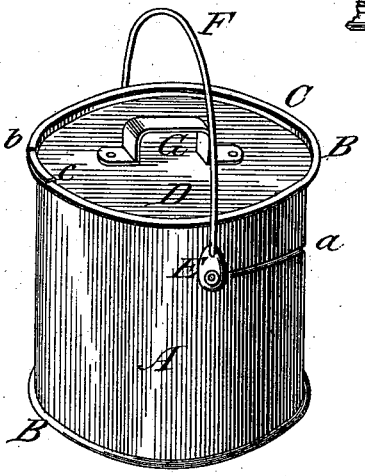


Fig. 2.

Fig. 5

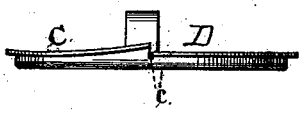
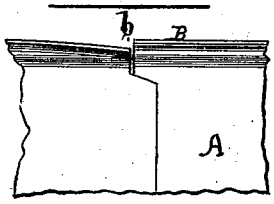


Fig. 6



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Inventor:

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UNITED STATES PATENT OFFICE.

JOHN F. ROSS, OF TORONTO, ONTARIO, CANADA, ASSIGNOR OF ONE-HALF HIS RIGHT TO WILLIAM FRANKLIN ROSS, OF SAME PLACE.

IMPROVEMENT IN SHEET-METAL PACKAGES.

Specification forming part of Letters Patent No. **209,987**, dated November 19, 1878; application filed June 13, 1878.

To all whom it may concern:

Be it known that I, JOHN FORSTER ROSS, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Sheet-Metal Packages, of which the following is a specification:

My invention has relation, first, to improvements in the manner of fastening and securing the heads of cylindrical sheet-metal packages for white lead, paints, oils, lard, and other materials.

My invention further relates to a novel arrangement of the handle or bail of said package, by which it may be carried, and utilized for various purposes when empty, and which is so arranged, in connection with pivoted lugs, that it may be folded out of the way, to offer no obstruction when a number of packages are packed together during transportation from place to place.

In the accompanying drawings, Figures 1 and 2 are perspective views of a package, in the construction of which my improvements are embodied. Figs. 3, 4, 5, and 6 are details, showing construction.

A is the body of package, which may be constructed of any of the descriptions of sheet-metal plate usually employed for this purpose. The bottom and top edges are folded over to form a shouldered recess or crease, extending around the whole diameter of cylinder, as indicated by letter B. Into this recess a correspondingly-turned edge, C, on the dished heads D is arranged to fit. To allow of the insertion of the edge C within the recess B one or more slits, *b*, are made in the upper overlapping edge of the cylinder and in the edge of the head, as at *c*. The metal on one side of these slits is depressed and the opposite side is raised, thus forming a tapering entrance into the recess of a screw-thread nature, which permits the edge of the head to be screwed into the recess B, by bringing the slits of the head and cylinder together, and turning the former around until the whole of the edge C passes into the recess B. The heads may then be secured in place by pressing or rolling down a portion or the whole of the overlapping edge of cylinder. For obvious reasons the head forming the bottom of the package should be secured as permanently and tightly as possible, by rolling or otherwise; but the head forming the top end, for ordinary purposes, may be amply secured in place by flattening down the previously-raised portion of the cylinder at the slitted entrances to the groove B.

A single slit in the edges of the head and package is sufficient to allow the former to be secured in place; but in this case it would be necessary to turn the head a full revolution before it would be fully secured. By making two oppositely-placed slits in both head and cylinder but half a revolution would be necessary.

The advantages of this method of fastening the heads are, that packages can readily be closed and opened with little labor and without damage. A further advantage is, that the construction is cheap and strong.

F is a bail, secured to the ends of the pivoted lugs or ears E, to form a double joint, which, while it will allow the bail to be extended and used as an ordinary bail, will fold together, the lug inclining in one direction and the bail-wire in the opposite direction, and bind tightly within a groove, *a*, sunk in the cylinder. The bail is not intended to be used for carrying the package when packed, (for this purpose a handle, G, is riveted on the cover,) but to enable the package to be utilized, when empty, as a paint-pot or other useful service.

It is evident that an equivalent connection between the head and cylinder could be made by overlapping the edge of the head on a straight outwardly-extended edge of the package. This construction merely reverses the position of the parts, without altering the spirit of the invention, and is therefore a mere equivalent.

I claim as my invention—

1. The head D, provided with the slitted differentially-inclined edge C, in combination with the cylinder A, provided with the recess B, and having the upper lapping edge slitted and deflected to correspond with the head, arranged and operating substantially as shown and described.

2. The bail F and pivoted lugs E E, in combination with the cylindrical package A, provided with the groove *a*, substantially as shown and described.

Witnesses:
GEO. A. AIRD,
L. WHITEHEAD.

JOHN F. ROSS.