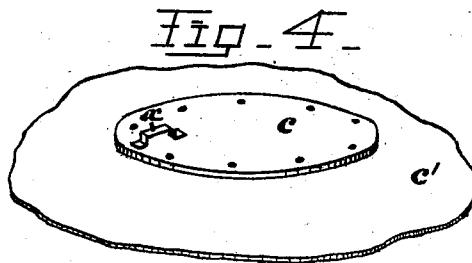
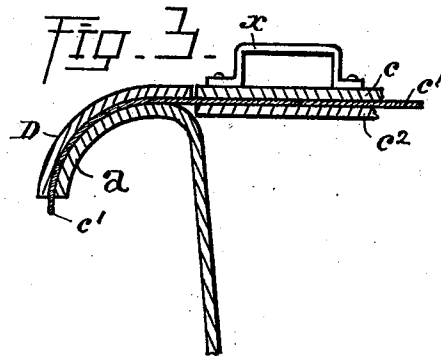
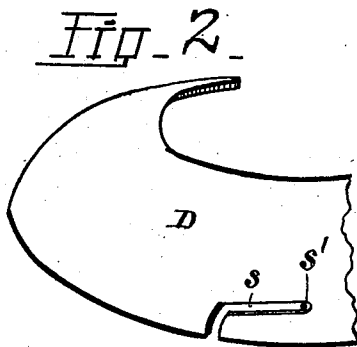
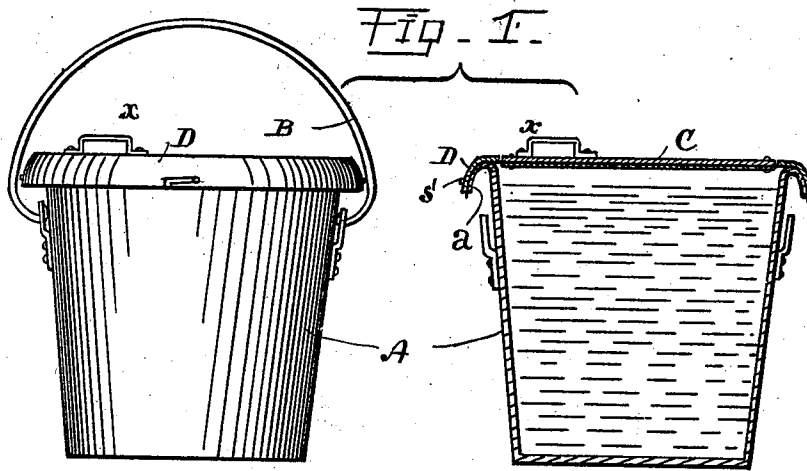


(No Model.)

T. J. BELL.
FIRE PAIL.

No. 516,749.

Patented Mar. 20, 1894.



Witnesses:
Sandon Freyler
J. H. Thrasher

Thomas J. Bell
Inventor,
by L. M. Kroca,
Att'y.

UNITED STATES PATENT OFFICE.

THOMAS J. BELL, OF CINCINNATI, OHIO.

FIRE-PAIL.

SPECIFICATION forming part of Letters Patent No. 516,749, dated March 20, 1894.

Application filed June 14, 1893. Serial No. 477,606. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. BELL, a citizen of the United States, residing at Cincinnati, Ohio, have invented new and useful Improvements in Fire-Pails, of which the following is a specification.

My invention relates to that class of appliances known as "fire pails," designed to be kept on hand and used for extinguishing fires. These are buckets, or similar receptacles, containing liquid, kept in situations convenient for the exclusive and ready application to incipient fires that may occur in any building, vessel, &c.; the object of the invention being, to produce a simple, efficient, and easily operated appliance for this purpose. Some of the conditions necessary to be met in appliances of this kind, are (first) that the liquid shall be preserved free of evaporation or deterioration by the atmosphere; (second) that the apparatus may be freely transported from place to place by the ordinary methods of shipment; (third) that it may be easily, quickly, and by the simplest and most obvious means, prepared for immediate and effective use; and the prime object of my present invention is to provide an apparatus that shall accomplish the desired results in an economical and efficient manner.

My invention is illustrated in the accompanying drawings, in which—

Figure 1, is a side elevation of the pail complete with a corresponding axial cross section. Fig. 2,—is a detail perspective of the holding collar, showing the fastening slot. Fig. 3, is a detail section, enlarged, showing the construction of the air-tight joint, between the top or cover and the flaring edge of the bucket. Fig. 4, is a detail perspective of the cover.

Referring now to the drawings: A, designates the bucket; B, a bail or handle provided therefor; and, C, the cover; all constructed and arranged as hereinafter set forth. The bucket or pail, A, is of sheet metal, of the ordinary form and convenient size, with a flat bottom, and has its rim spun over outwardly and downwardly, as clearly shown at, *a*, in Figs. 1 and 3, for a purpose to be presently explained. The cover, C, consists of two disks of sheet metal, *c*, *c'*, securing between them a larger disk, *c'*, of tin-foil, or of strong paper suitably treated, or of any other mate-

rial, capable of resisting the action of the liquid and of making the sealed joint as hereinafter described. The disks, *c*, *c'*, are of just sufficient size, to extend over the opening of the pail and rest within its flared enlargement, and allow the tin-foil to project outwardly over the curved surface of the flared mouth, and lie flat thereon, as indicated in Figs. 1 and 3. The top being placed in the position indicated, a joint is made by an annular collar, D, spun out of sheet-metal to conform to the contour of the flared margin of the pail, A, with a central opening sufficient to admit the upper disk, *c*, of the cover. The collar is provided with two, three, or any number of slots, *s*, of the form shown in Fig. 2, said slot consisting of an opening through the bottom of the collar extending a short distance vertically thence laterally with a slight upward inclination. These slots are arranged at equal intervals around the outer circle of the collar, to engage over short radial pins or studs, *s'*, correspondingly arranged upon the outer surface of the flared margin, *a*, of the pail, A. It may now be explained that the object of flaring the upper margin of the pail outwardly as shown, is threefold, (first) to produce a convex surface upon which the tin-foil *c'* rests, so as to insure a water and air-tight joint under the covering ring; (second) to enable the ring, D,—which is made to fit closely—to compress the marginal lip *a* slightly so as to insure a tight joint by the outward or radial resiliency of the latter; and (third) to admit a large cover and present a large opening when the cover is torn out, so that the entire contents of the pail may be discharged exactly at the spot desired, in use, without any obstruction in the pail itself.

In securing the parts together the collar, D, is slipped downward over the studs *s'*, and given a partial rotation, so that the studs ride in the inclined portion of the slots, *s*, and draw the collar tightly down upon the tin-foil packing and hold the parts securely together. The apparatus is completed by a handle, *x*, placed upon the cover *c*.

In use, in case of emergency, the cover can be instantly torn off without removing the ring, D, whose opening is sufficiently large to permit the disks of the cover to be forced through the central opening of the ring. In

such case, the function of the lower disk, c^2 , is to tear out the foil to the full opening of the mouth of the pail, thus insuring an unobstructed opening for discharging the contents. A further function of the lower disk c^2 is to rest within the flaring opening at the mouth of the pail and protect the foil-joint against injury from downward pressure. The upper disk may be the central part removed in forming the collar D, and in practice it is found convenient to spin the outer rim of an enlarged disk of metal to form the collar, and afterward cut out the central portion to form the disk c , or the disk c^2 .

I claim as my invention, and desire to secure by Letters Patent of the United States, the following:

1. The combination in a "fire pail," of the sheet-metal pail having an upper flange curved outward and downward; an annular collar adapted to fit over and be secured to the flange of the pail; and a cover consisting of a disk of metal slightly smaller than the opening of the ring, having a projecting annulus of flexible and easily perforated sheet-packing, substantially as set forth.

2. In a fire pail, the combination of a sheet-

metal pail having an outwardly and downwardly flanged upper margin presenting an external convex surface; equi-distant studs projecting radially from said surface; a ring or collar adapted to fit the contour of said rim and provided with slots to engage said studs and secure the collar in position and a top or covering plate secured by the collar, substantially as set forth.

3. In a fire pail the combination of a pail having a convex upper mouth, such as described; a packing-cover consisting of a sheet-metal lower disk of a size to fit the inner wall of the flaring mouth, an upper disk of substantially the same size, and enlarged disk or skirt of sheet packing held between the disks; and a holding ring adapted to fit over the convex margin of the pail outside of the upper disk of the cover, substantially as set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

THOMAS J. BELL.

Witnesses:

L. M. HOSEA,
LONDON FREYBLER.