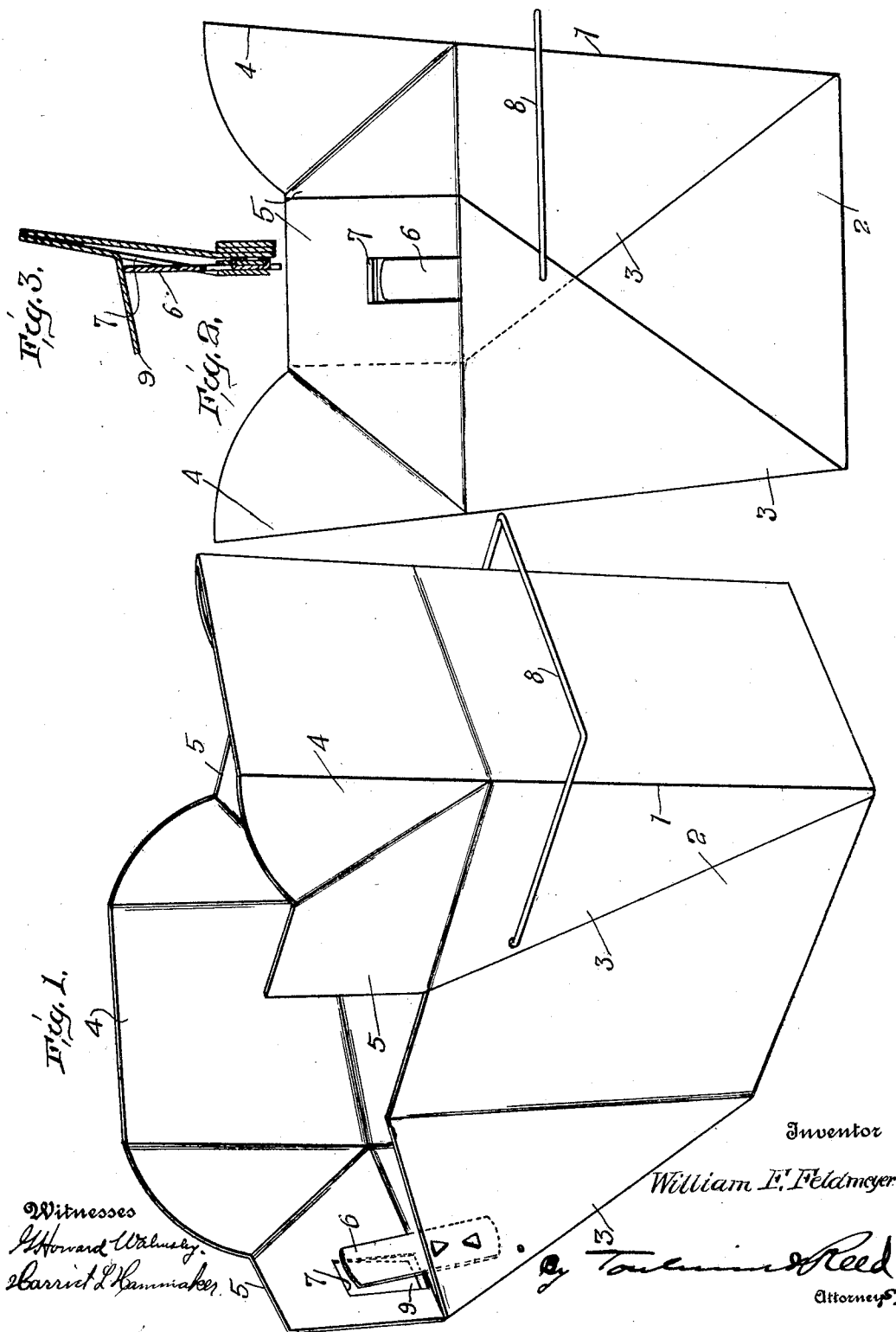


W. F. FELDMEYER.
PAPER PAIL.
APPLICATION FILED SEPT. 25, 1912.

1,103,186.

Patented July 14, 1914.



UNITED STATES PATENT OFFICE.

WILLIAM F. FELDMEYER, OF DAYTON, OHIO, ASSIGNOR TO THE AULL BROTHERS
PAPER AND BOX COMPANY, OF DAYTON, OHIO, A CORPORATION OF OHIO.

PAPER PAIL.

Specification of Letters Patent.

Patented July 14, 1914.

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To all whom it may concern:

Be it known that I, WILLIAM F. FELDMEYER, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Paper Pails, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to paper pails and more particularly to that type of folded paper pails which are provided with metal clips for securing the closures in their closed positions.

15 The object of the invention is primarily to so construct the pail and so arrange the clip that the latter can be applied wholly by machinery and that the clip will not interfere with any of the various steps in the manufacture of the pail; and further to so secure the clip to the pail that it will be held firmly in position. In paper pails of this type as now constructed the metal clip is secured to the inner fold of the corner piece by extending the same through a slot therein and bending the lower portion of the clip up against the opposite side of the corner piece. The upper portion of the clip is projected through a slot in the outer fold of the corner piece in order that it may be bent down upon the closure after the latter has been folded into its closed position. It is thus necessary to pass the clip through two slots and this must be done by hand, making the operation a slow and laborious one. Further, the method of fastening the clip to the inner fold of the corner piece is such that it is very apt to loosen and be pressed down out of engagement with the fold. The present construction overcomes these difficulties by securing a flat metal clip against one side only of the inner fold of the corner piece and providing the upper portion of the outer fold of the corner piece with an opening to permit this upper portion to be folded over the inner portion and past the clip.

50 In the accompanying drawings, Figure 1 is a perspective view showing one of the corner pieces on one side of the pail in an

extended position; Fig. 2 is a side elevation of the complete pail with the closure in its open position; and Fig. 3 is a sectional view taken through the side wall, corner piece and clip showing the upwardly extending part of the corner piece as partially folded.

In these drawings I have illustrated one embodiment of my invention and have shown the same as applied to a paper pail of ordinary construction. As here shown the pail is made from a paper blank scored to be folded into shape and when so folded comprises end walls 1 and side walls 2 having their adjacent edges connected one to the other by means of corner pieces 3, each of which is folded upon itself along a diagonal line extending from the lower corner of the pail and has both parts folded against or along side of the adjacent side wall of the pail. The end walls and the outer portions of the corner pieces are provided with upwardly extending portions 4 and 5, respectively, which comprise a closure for the pail and are folded inward across the top thereof to close the same. A metal clip is ordinarily secured to the pail and projects above the side wall thereof in a position to be bent inward above the folded closure to retain the latter in closed position. Preferably this clip is secured to the inner fold or portion of one of the corner pieces. The present method of applying these clips is objectionable for the reasons above given and to overcome these objections I provide a clip 6 of flat flexible metal, such as tin of a suitable weight. This clip is flat or straight throughout its length as distinguished from the ordinary clip which has its lower end upturned. Further, the clip is secured to one side only of the inner portion of the corner piece, this being accomplished by means of barbs or struck up portions of the clip which are forced through the inner portion of the corner piece and clenched, thus constituting rivets to secure the clip in position. This construction and mode of application is such that the clip can very readily be secured to the pail by machinery, preferably before

the blank is folded. When the pail is folded the clip thus secured to the inner portion of the corner piece projects above the side wall of the pail but within the flap or upwardly extending part of the outer portion of the corner piece to which it is secured, it being understood that ordinarily there is but one clip on each side of the pail. To permit the upwardly extending flap to be folded inward when the pail is closed this flap is provided with an opening 7 arranged in alinement with that portion of the clip 6 which extends above the side wall of the pail. This opening is of such a size as to permit the passage of the clip when the flap is folded inward. It will be understood that in closing the pail the flaps 5 secured to the corner pieces are first folded inward and then the parts secured to the end walls of the pail are folded inward above the flaps 5. These parts extend across the openings 7 in the flaps 5 and when the clips 6 are bent inward they will engage these upper portions and hold the closure in its folded position.

The folded pails are ordinarily secured in their folded positions, with the closures in their open positions, by passing the ends of the bails 8 through the folded corner pieces and the respective side walls and clenching the same on the inner sides, this operation being performed by machinery. To facilitate the placing of the folded pail upon the form, in the position which it occupies while the bail is being applied, a closure may be provided for the opening 7 which will normally be on the outside of the clip 6 and will prevent this clip from coming into contact with any parts of the mechanism when the pail is placed upon the form but which will be forced outward to permit the clip to pass through the opening when the flap is folded inward. It will be understood, however, that the use of this closure is optional and that satisfactory results may be secured by providing the opening without a closure. Preferably this closure is provided when the opening 7 is formed, by putting the opening along three sides only, thus leaving a lip or closure 9 which fits snugly within the opening and which is secured at one edge, preferably its upper edge, to the flap. Consequently, after the pail is completed the metal clip will not be visible from the exterior thereof and will not become visible until the flap 5 is folded inward, thus forcing the closure or lip 9 outward.

It will be apparent from the foregoing description that I have provided a pail which will accomplish the purposes set forth and which has all the simplicity of construction and desirable features of the old type of pail with the added features above described.

While I have shown and described one embodiment of the invention it will be understood that this has been chosen for the purpose of illustration only and that I do not desire to be limited to the details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A paper pail having side and end walls, corner pieces connecting the adjacent edges of said walls, each corner piece being folded upon itself along a diagonal line and also being folded against the adjacent side wall, the outer portion of each corner piece having an upwardly extending flap adapted to be folded inward in closing said pail, and a clip secured to the inner portion of one of said corner pieces on each side of said pail and extending above the edge of said corner piece on the inner side of the flap of said corner piece, the upwardly extending flaps of the outer portions of those corner pieces to which the clips are secured having openings of a size to permit said flaps to be folded past the respective clips.

2. A paper pail having side and end walls, corner pieces connecting the adjacent edges of said walls, each corner piece being folded upon itself along a diagonal line and also being folded against the adjacent side wall, the outer portion of each corner piece having an upwardly extending flap adapted to be folded inward in closing said pail, and a clip secured to the inner portion of one of said corner pieces on each side of said pail and extending above the edge of said corner piece on the inner side of the flap of said corner piece, the upwardly extending flaps of the outer portions of those corner pieces to which the clips are secured having openings of a size to permit said flaps to be folded past the respective clips, and closures for said openings arranged to be engaged by the respective clips and moved outward when said flaps are folded inward.

3. A paper pail having side and end walls, flaps extending above the respective side walls, one flap on each side of said pail having an opening therein and being adapted to be folded inward when the pail is closed, clips secured to said pail and extending above the side walls thereof on the inner sides of the respective flaps, the upper portions of said clips being in alinement with the openings in the respective flaps, whereby said flaps can be folded past said clips with the clips in upright positions.

4. A paper pail having side and end walls, flaps extending above the respective side walls, one flap on each side of said pail having an opening therein and being adapted

to be folded inward when the pail is closed, clips secured to said pail and extending above the side walls thereof on the inner sides of the respective flaps, the upper portions of said clips being in alinement with the openings in the respective flaps, whereby said flaps can be folded past said clips with the clips in upright positions, and closures

for said openings adapted to be displaced by the clips as the flaps are folded. 10
In testimony whereof, I affix my signature in presence of two witnesses.

WILLIAM F. FELDMEYER.

Witnesses:

IRVIN C. DELSCAMP,
EDWARD L. REED.

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