

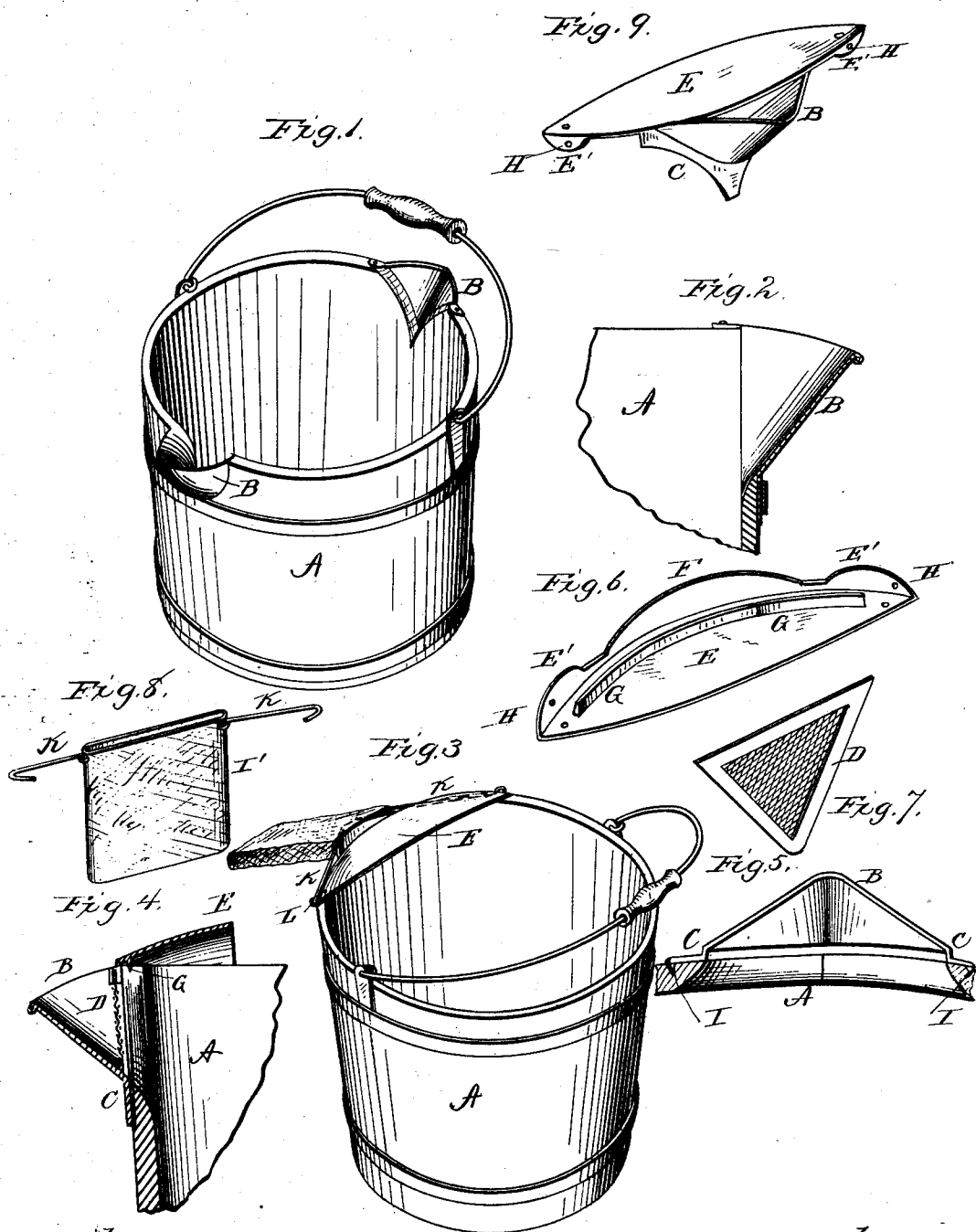
(Model.)

F. G. FORD.

COMBINED PAIL SPOUT AND STRAINER.

No. 244,877.

Patented July 26, 1881.



Witnesses.
F. L. Ouraud
J. J. McCarthy

Inventor
F. G. Ford
By C. M. Alexander
attorney

UNITED STATES PATENT OFFICE.

FREDERIC G. FORD, OF ROXBOROUGH, PENNSYLVANIA.

COMBINED PAIL-SPOUT AND STRAINER.

SPECIFICATION forming part of Letters Patent No. 244,877, dated July 26, 1881.

Application filed May 26, 1881. (Model.)

To all whom it may concern:

Be it known that I, FREDERIC G. FORD, of Roxborough, in the county of Philadelphia, and in the State of Pennsylvania, have invented certain new and useful Improvements in Combined Spout and Strainer for Pails; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in pails for liquids and other substances; and it has for its objects to provide an improved spout and strainer for such articles, which may be readily attached thereto, as desired, for the purposes of facilitating the pouring of the contents, separating any solid impurities therefrom during the operation of pouring, and to furnish a convenient means for filling narrow-mouthed vessels, as more fully hereinafter specified. These objects I attain by the devices illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of my improved pail, showing the spout of the same. Fig. 2 represents a detached sectional view of a portion of the pail and spout. Fig. 3 represents a perspective view of a pail with the straining device attached thereto. Fig. 4 represents a sectional view of a portion thereof and the straining device and spout. Fig. 5 represents a top view, showing the upper edge of the pail and strainer and the opening of the spout. Fig. 6 represents a detached perspective view of a detachable plate to be secured at the edge of the pail just back of the spout. Fig. 7 represents a detached view of the strainer. Fig. 8 represents a detached view of an auxiliary strainer or filter-bag to be attached in front of the spout, and Fig. 9 a detached perspective of the spout and metallic plate secured to the edge of the pail.

The letter A indicates an ordinary wooden pail, which is formed at any suitable point on its edge with a spout, B, in the material of which the body of the pail is constructed; or the said spout is formed of metal, preferably struck up with dies in the manner well known for shaping sheet metal to the proper configuration. The said spout, at the edges which

set against the sides of the pail, is provided with flanges C, having suitable apertures, through which nails, screws, or other fastening devices may be inserted to secure the spout to the pail. The edge of the pail, where the detachable spout is secured, is cut out at an angle, as indicated, so as to permit the contents to flow conveniently into and through the spout without spilling.

In the modification shown in Fig. 3 of the drawings the flanges of the spout are shouldered, so that when the spout is secured to the pail an angular seat will be formed between said flanges and the outer wall of the pail for the reception of an angular strainer, D. (Shown in detail in Fig. 7.)

The letter E indicates a sheet-metal plate, adapted to be secured to the edge of the pail just back of the spout. The outer edge conforms to the curvature of the mouth of the pail, and is provided with a series of three downwardly-bent flanges, E' F E', the flanges E' E' being adapted to set against the outside of the upper edge of the pail and the flange F against the outside upper edge of the strainer, located between the spout and the outer wall of the pail, forming a support for such edge of the strainer and assisting to hold it in place. The said plate E is provided within its outer edge with flanges or depressions G, which may be soldered on, or may be formed directly in the metal of the plate by the ordinary method of stamping. These flanges are designed to set into recesses formed in the edge of the pail at each side of the opening therein, and assist in holding the plate to its seat.

If desired, the flanges G may be made continuous across the plate, in which case it will form a back support for the strainer.

The flanges E' E' are provided with apertures H, through which nails or tacks or screws may be inserted to secure the parts to the pail. The ends of the flanges of the spout may be pointed and bent inward, so that they can be driven and secured without the use of nails, as indicated by the letter I.

The letter I' indicates a strainer or filter-bag of textile material, which may be secured over the mouth of the spout by means of wire links K fastening into the eyes L in the screws M, which partly serve to hold the spout. The

strainers and plate E are removable, and may be employed or dispensed with at will, thus adapting the pail to be used as a simple receptacle or a straining and filtering device, as
5 may be found convenient.

When required for filling bottles the strainer may be removed and the plate E secured in place. This will permit the contents to be readily discharged through the spout into the
10 bottle, while the plate E will prevent all possibility of any overflow at the edge of the pail.

The joint at the flange and sides of the pail may be made tight by means of an interposed packing of rubber, felt, or other suitable material, or by means of cement, white lead, or
15 other similar material, or by means of a coating of paint applied either on the inside or outside.

A great advantage of my improved spout and strainer is that the same may be applied
20 at small expense to old pails or to the ordinary pails in the market.

It is evident that my improved spout may be applied with advantage to wash-tubs and
25 other wooden vessels, and hence I do not limit myself to its application to pails simply.

Having thus described my invention, what I

claim, and desire to secure by Letters Patent, is—

1. In combination with a wooden pail having an angular recess at its edge, a metallic mouth-piece flanged, at its edges, and adapted to be secured to the pail by tacks or other suitable fastening devices, substantially as and for the purposes specified. 30

2. In combination with the bucket and mouth-piece, the plate E, provided with flanges E', F, and G, and with suitable openings for tacks or other fastening devices, whereby the said plate may be secured to the bucket, substantially as specified. 35

3. In combination with the bucket and spout and the plate E, provided with flanges E' F G, the detachable strainer D, the flange G serving to hold the upper edge of the strainer, substantially as specified. 40

In testimony whereof I affix my signature, in presence of two witnesses, this 23d day of May, 1881.

FREDERIC G. FORD.

Witnesses:

H. AUBREY TOULMIN,
J. J. MCCARTHY.