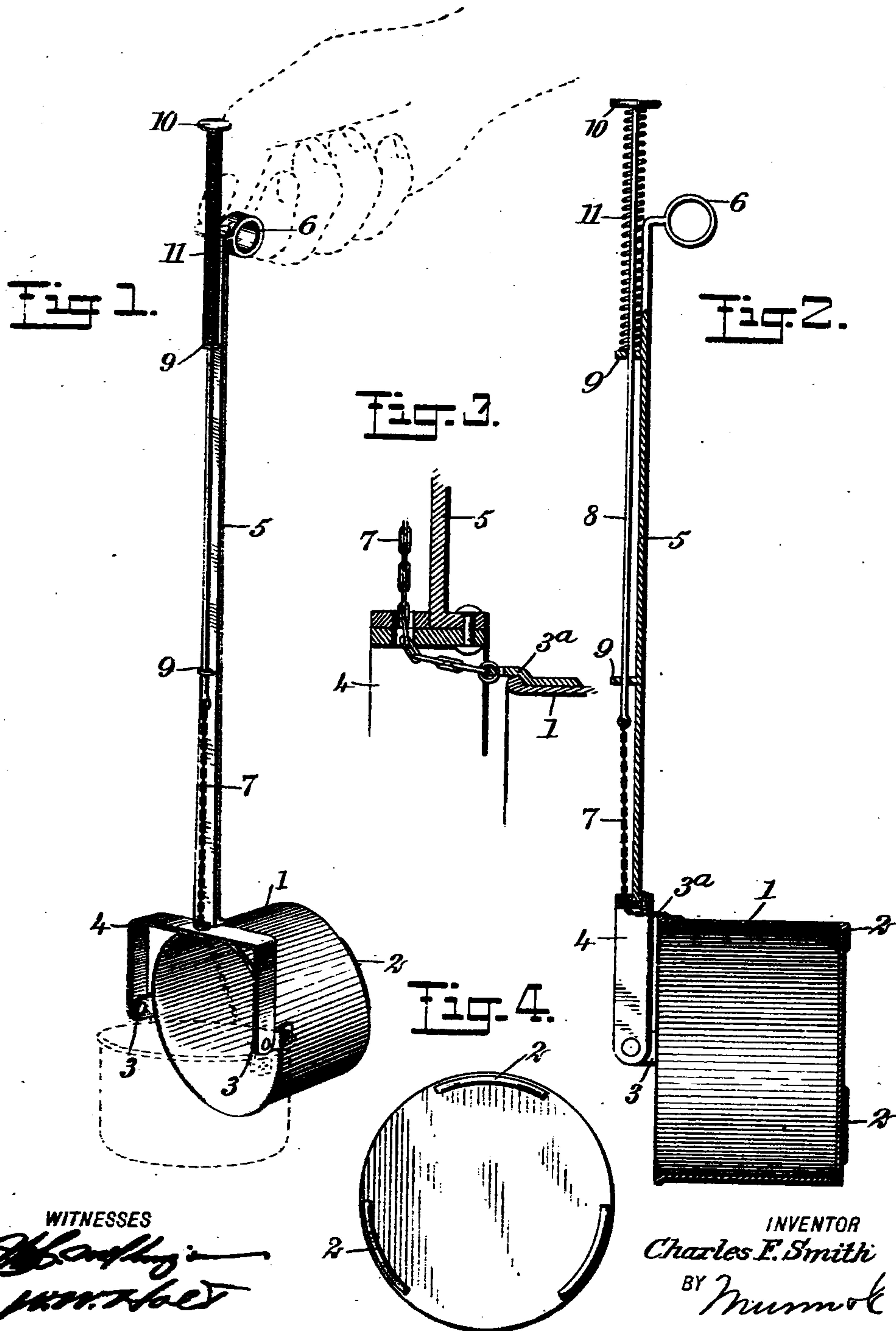


No. 843,372.

PATENTED FEB. 5, 1907.

C. F. SMITH.
DIPPER.

APPLICATION FILED NOV. 17, 1906.



WITNESSES
Handwritten signatures

INVENTOR
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BY *Mumok*
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UNITED STATES PATENT OFFICE.

CHARLES FRANKLIN SMITH, OF NEW YORK, N. Y.

DIPPER.

No. 843,372.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed November 17, 1906. Serial No. 343,848.

To all whom it may concern:

Be it known that I, CHARLES FRANKLIN SMITH, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented a new and Improved Dipper, of which the following is a full, clear, and exact description.

This invention is an improvement in dippers, more especially designed for dipping milk from cans or other liquids from other receptacles in which it is not possible to turn the handle of the dipper at an angle to best fill the cup.

In dipping milk from cans after the can is almost empty it is impossible to use an ordinary form of dipper, for the reason that the handle of the same cannot be turned to bring the cup of the dipper to a horizontal position, in which position it is most readily filled.

With my invention this objection is overcome by providing means to swing the cup to a vertical or horizontal position, as desired, said means being operable by the hand of the operator which is used to hold the dipper.

Figure 1 is a perspective view of the dipper, showing the cup thereof in a horizontal position, as when it is being filled in a can, and in a vertical position in dotted outline, which position the cup is caused to assume when it is withdrawn from a can. Fig. 2 is a central vertical section through the dipper with the parts in the same position as shown in Fig. 1. Fig. 3 is a fragmentary sectional view of the connection between the cup and the means for swinging it to an angular position, and Fig. 4 is an inverted plan view of the cup.

The invention embodies in its construction a cup 1, preferably uniformly cylindrical and having ribs 2 arranged on its bottom face, providing feet for the cup. At diametrical points are fastened to the sides of the cup in any suitable manner upwardly-extending ears 3, to which is pivotally connected a bail 4, said bail bridging the cups as in an ordinary form of bucket. Attached to the center of the bail is a long upwardly-extending handle 5, having its extreme upper end bent at right angles and formed into an eye 6 for receiving the forefinger of the user, as shown in dotted outline in Fig. 1.

At a point intermediate the ears 3 is attached to the side of the cup 1 an ear 3^a, which is connected to chain 7 or other flexible connection passing through an opening

formed in the center of the bail 4 at one side of the handle 5. The opposite and upper end of said chain is connected to the lower extremity of a rod 8, guided in lugs 9, projecting from the adjacent face of the handle 5. The upper end of the rod 8 has formed or attached thereto a thumb-plate 10, between which and the upper lug 9 is interposed a spiral spring 11, surrounding the rod 8. From this construction it is apparent that the spring 11 will normally retain the cup in a horizontal position, as shown in Fig. 2, in which position of the cup it is most readily filled after it is inserted in a milk-can or other like receptacle.

In placing the dipper into the can and removing it therefrom the forefinger of the operator is passed through the eye 6 and the thumb brought to bear on the plate 10, depressing it and bringing the parts to the position shown in Fig. 1. It is thus seen by this arrangement and construction that the dipping operation may be carried out with facility by the use of a single hand of the operator.

The precise construction herein described is not material, provided the essential characteristics are employed, as pointed out in the annexed claims.

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

1. In a dipper of the character described, a cup, a bail bridging the cup and pivotally connected at each side thereof, a handle fixed to the bail, and means carried by the handle connected to the cup at the opposite side thereof from the bail for swinging the cup on the bail.

2. In a dipper of the character described, a cup, a bail pivotally connected to the cup, a handle rigidly attached to the bail, and means carried by the handle having a flexible member connecting it with one side of the cup operating to swing the cup on the bail.

3. In a dipper of the character described, a cup, a bail pivotally connected to the cup, a handle rigidly attached to the bail having an eye formed at its upper extremity, a rod slidable in guides carried by the handle, a flexible member connecting the rod with the cup, a thumb-plate arranged at the upper end of the rod, and a spring interposed under said thumb-plate acting to force the rod in an upward direction.

4. In a dipper of the character described, a cup, a handle pivotally connected to the cup, and means carried by the handle having a flexible member connecting it with one side
5 of the cup, operating to cause said cup to normally assume a horizontal position.

5. In a dipper of the character described, a cup, a handle pivotally connected thereto having the upper end thereof formed into an
10 eye, a rod slidable in guides at one side of the handle, a flexible member connecting the rod

and cup together, a thumb-piece carried at the upper end of the rod, and a spring pressing on said thumb-piece for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES FRANKLIN SMITH.

Witnesses:

ARTHUR STUBER,
ROBERT HARPER.