A. W. WELLINGTON.

FOLDING HANDLE DRINKING CUP.

APPLICATION FILED JULY 2, 1919.

1,316,402.

Patented Sept. 16, 1919.

Fig. 1.

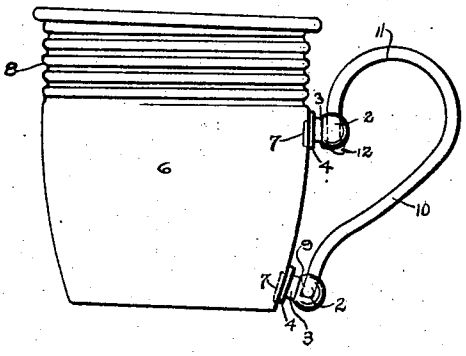


Fig. 2.

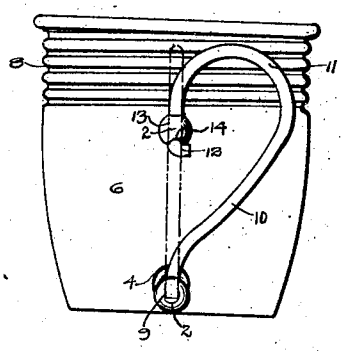


Fig. 3.

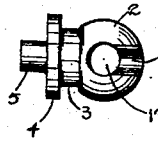


Fig. 4.

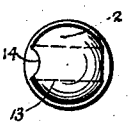


Fig. 5.

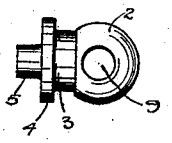


Fig. 6.

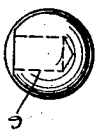
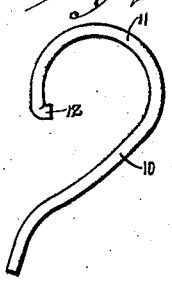


Fig. 7.



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UNITED STATES PATENT OFFICE.

ARTHUR W. WELLINGTON, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE CHASE COMPANIES INC., OF WATERBURY, CONNECTICUT.

FOLDING-HANDLE DRINKING-CUP.

1,316,402. Specification of Letters Patent. Patented Sept. 16, 1919.

Application filed July 2, 1919. Serial No. 308,171.

To all whom it may concern:

Be it known that I, ARTHUR W. WELLINGTON, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Folding-Handle Drinking-Cups; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this application, and represent, in—

Figure 1 a view in side elevation of my improved cup with its handle in the open and locked position.

Fig. 2 a view of the cup shown as turned a quarter turn and with the handle shown in its folded position by full lines, and in its open position by broken lines.

Fig. 3 a detached plan view of the upper handle-mounting stud.

Fig. 4 an end view thereof.

Fig. 5 a detached plan view of the lower handle-mounting stud.

Fig. 6 an end view thereof.

Fig. 7 a detached view of the spring folding-handle.

My invention relates to an improved folding-handle drinking-cup particularly designed for use upon vacuum bottles, but not so limited, the object being to simplify and cheapen cups of this character, and at the same time add to their appearance and convenience.

With these ends in view, my invention consists in a folding-handle drinking-cup having certain details of construction as will be hereinafter described and pointed out in the claims.

In carrying out my invention, I employ two one-piece handle-mounting studs, each comprising a ball 2, a short-stem 3, an annular abutment-flange 4 and a rivet 5, the latter being passed through suitable holes in the cup 6 and riveted down upon the inner face thereof as at 7, or the rivets may be soldered in place instead of being upset, or they may be both upset and soldered. In either case the abutment-flanges 4 come to a bearing upon the outer face of the cup. As shown, the upper end of the cup is formed with rolled-in threads 8, providing for its being screwed upon a vacuum or "thermos" bottle of standard construction. The ball of the lower of the two studs is formed in its upper face with a bearing-hole 9 for the reception of the lower end of a one-piece resilient folding handle 10 made of wire and having its upper portion bent to form a bow 11, terminating in a locking-end 12 bent to stand at a right angle to the vertical plane of the handle. The ball of the upper stud is formed with a bearing-hole 13 passing vertically through it and formed at its lower end with a cam-like locking-notch 14 extending radially outward and receiving the locking-end 12 of the handle when the handle is swung into its full open position as shown in Fig. 1, in which it stands in the plane of both studs. In applying the handle, its lower end is threaded upward through the hole 13 of the upper stud, after which the handle is drawn through the said hole until its further passage is stopped by its locking-end 12 after which its lower end is sprung into the bearing-hole 9 in the lower stud. The entire handle is by being so sprung, normally placed under sufficient tension so that when it is turned into its open position its resiliency will operate to enter its locking-end 12 into the locking-notch 14 and hold it therein with enough force to lock the handle in its open position and prevent the cup from swinging with respect to it, thus preventing the contents of the cup from being spilled, or the fingers from being burned in case the cup is filled with hot liquid. When the handle is turned in either direction into its folded position, its locking-end 12 will ride out of the notch 14 and over upon the adjacent lower surface of the ball of the upper stud with the production of sufficient friction to cause it to be held in its folded position.

By employing one-piece handle-mounting studs as described, formed at their inner ends with integral rivets, by means of which they are secured in place, I am able to produce cups of superior finish, appearance and efficiency, while my improved construction also provides effective and durable means for holding their handles in their open positions.

I do not broadly claim the riveting of a handle-mounting fixture to a cup, but only my specific one-piece handle-mounting stud.

I claim:—

1. In a folding-handle drinking-cup, the

combination with a cup, of two one-piece handle-mounting studs each consisting of a ball, a stem, an abutment-flange, and a rivet; and a one-piece resilient handle the respective ends of which are adapted to be pivotally mounted in the balls of the said studs, the rivets of which are passed through and secured to the cup, and one of the studs co-acting with the handle to hold the same in its open position.

2. In a folding-handle drinking-cup, the combination with a cup, of two one-piece handle-mounting studs mounted in the said cup one above the other, the lower stud being formed in its upper face with a bearing-hole, and the upper stud being traversed by a vertical bearing-hole the lower end of which is intersected by a radially-arranged locking-notch; and a one-piece wire handle having its opposite ends mounted in the balls of the said studs and its upper end formed with a retaining-end co-acting with the said notch for locking the handle in its open position.

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

ARTHUR W. WELLINGTON.

Witnesses:
RAYMOND O. PALMER,
JOHN S. NEAGLE.

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