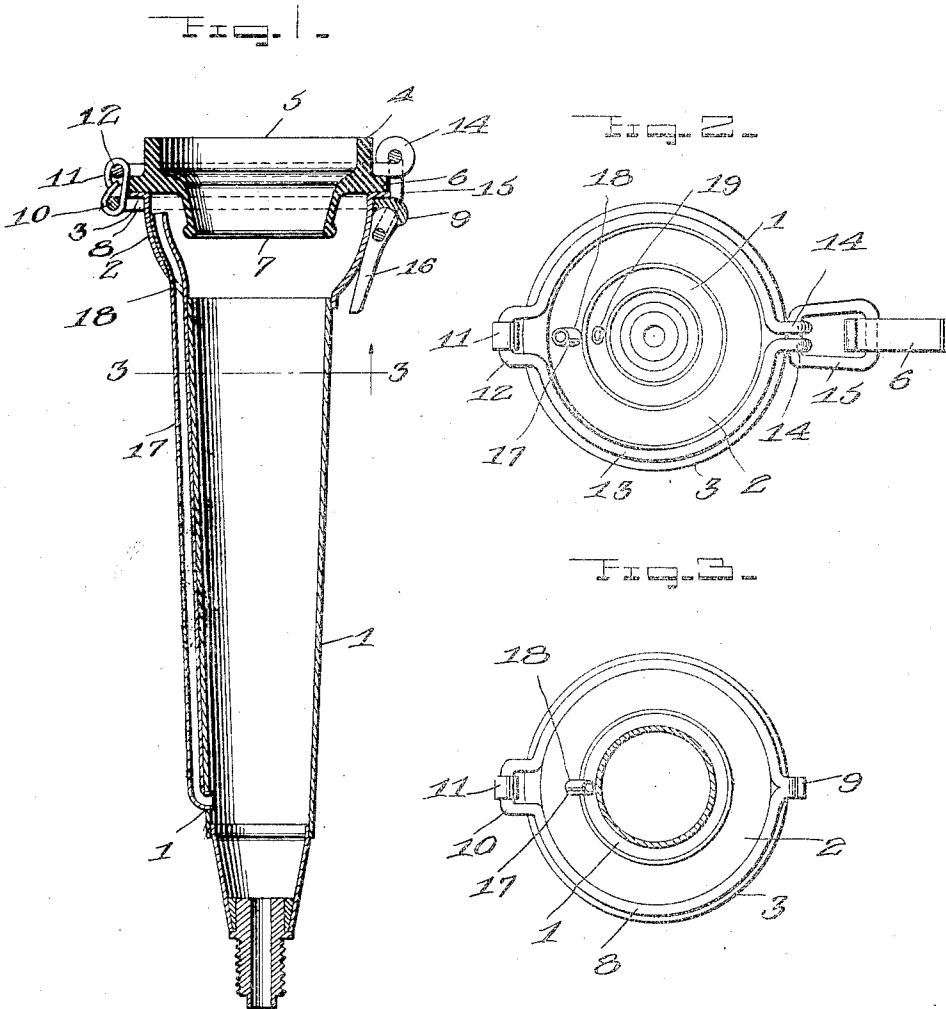


F. B. GROFF.
TEAT CUP.

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973,036.

Patented Oct. 18, 1910.



Witnesses

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FLOYD B. GROFF, OF ST. JOHNSVILLE, NEW YORK.

TEAT-CUP.

973,036.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FLOYD B. GROFF, a citizen of the United States, residing at St. Johnsville, in the county of Montgomery and State of New York, have invented certain new and useful Improvements in Teat-Cups, of which the following is a specification.

My invention has relation to new and useful improvements in milking machines and especially to teat-cups, said improvements being especially upon the teat-cup which is covered by my former Patent #878,057.

The main object of my invention is to provide novel means for securing the rubber or flexible mouthpiece in position.

A further object is to provide a small tube extending downward along the outside of the cup from within the bowl thereof for the purpose of creating a vacuum in said bowl whereby action may be had upon the upper part of the teat or udder.

Outside of the above novel features of my present invention, the base of the cup is constructed as illustrated in my Patent #878,058 which contains certain novel features over my patent first-mentioned.

With the foregoing and other objects in view my invention consists of the novel construction and arrangement of parts as are fully described in this specification, illustrated in the accompanying drawings forming a part thereof and particularly pointed out in the claims hereunto appended.

Reference being had to the drawings: Figure 1 is a vertical, longitudinal, central, sectional view of my teat-cup bringing forth the novel features thereof clearly. Fig. 2 is a top, plan view of my invention, the rubber mouthpiece being removed, the locking means being in unlocked position. Fig. 3 is a transverse, section taken on the line 3—3 of Fig. 1.

Referring more particularly to the drawing, my invention is described as follows:

The tapering tube 1 is provided at its larger end with a bowl 2, secured thereto or formed integral therewith.

Extending from the upper edge of the bowl is an annular flange 3, which extends horizontally. The mouthpiece 4, is constructed similar to the mouthpiece used in my former patents, being provided with an annular ring 5, a horizontal flange 6 and an apron 7, said flange 6 resting upon said flange 3. Encircling the bowl of the cup adjacent

said flange 3, is a wire clamping ring 8, said clamping ring provided at one side with a lug 9 and at the opposite side with a link connection 10, to which said link connection is connected a suitable link or hinge 11. Said hinge 11 engages a similar link connection 12 of a clamping ring 13, which clamping ring 13 is adapted to encircle the mouthpiece 4 adjacent and above the flange 6 thereof.

Two eyes 14 are formed at the opposite side of the clamping ring 13 to which the link connection is formed, said eyes registering with each other and receiving a link 15, which is provided with a locking cam 16. When the wire clamping rings are in locked position they are in that position as shown in Fig. 1. When they are in unlocked position they are in that position illustrated in Fig. 2, Fig. 3 showing only one-half of the locking means or clamp.

A small tube 17, which enters the cup at a point where the upper end of the tapering tube terminates, by means of a perforation 18, extends downward along the side of the cup and adjacent thereto, entering the same at a point 19 near the lower extremity of the tapering portion. By the use of this tube there is a tendency to create a vacuum in the bowl 2, thus, as heretofore stated, acting upon the upper part of the teat or udder, which has been found to be advantageous in the construction and operation of milking machines.

Although I have specifically described the construction and arrangement of the several parts of my invention, yet I do not confine myself particularly to such combination of parts, construction and arrangement, but reserve and may exercise the right to make such changes and modifications therein as do not depart from the spirit of the invention or the scope of the appended claims.

Having described my invention what I claim as new, is:

1. In a teat-cup comprising a body portion and a bowl provided at the upper extremity thereof, the combination of a flexible mouthpiece with clamping means to secure the mouthpiece in position, said bowl provided with an annular flange to which the clamping means are secured, said mouthpiece having a corresponding flange which is gripped by the clamping means, said clamping means consisting of a clamping

ring encircling the flange of the bowl and a clamping ring adapted to encircle the flange of the mouthpiece, a suitable hinge between the two rings, the lower ring provided with a lug, the other provided with a cam, and means of connection between the cam and its ring.

2. In a teat-cup comprising a body portion and a bowl provided at the upper extremity thereof, the combination of a flexible mouth piece with clamping means to secure the mouth piece in position, said bowl provided with an annular flange to which the clamping means are secured, said mouth

piece having a corresponding flange which is gripped by the clamping means, said clamping means consisting of a clamping ring encircling the flange of the bowl and a clamping ring adapted to encircle the flange of the mouth piece, said ring being hingedly secured together and means to lock said clamping rings together while contacting.

In testimony whereof I affix my signature, in presence of two witnesses.

FLOYD B. GROFF.

Witnesses:

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