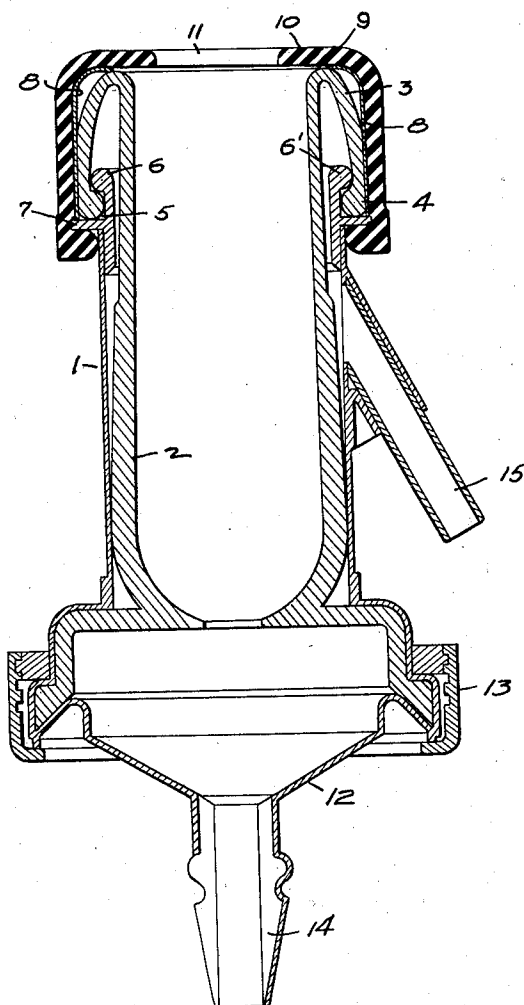


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TEAT CUP FOR MILKING MACHINES

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TEAT CUP FOR MILKING MACHINES

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2 Claims. (Cl. 31—85)

Our invention relates to teat cups employed in connection with milking machines and of the type in which use is made of a rubber lining.

As is well known, it is of great importance that in teat cups of this kind the rubber lining should be easy to set in and to remove for cleaning purposes. This should further be possible without the help of tools or instruments of any kind.

The teat cup according to the present invention remedies the inconveniences affecting teat cups now being used, and has moreover the particular advantage of ensuring by simple and practical means, a perfect tightness which prevents the passing of outside air liable to affect the proper working of the lining under vacuum conditions and also under the pulsations to which this lining is subjected.

With the above mentioned object in view, our invention essentially consists in the special arrangement and combination of parts hereinafter fully described and pointed out in the appended claims.

On the annexed drawing, which shows a form of embodiment of the invention, 1 indicates the teat cup body in which the lining 2 is lodged.

As shown on the drawing, the lining 2 which has a longer length than the cup body is provided at its end 3 with a ring 4. This end, after being turned outwardly over itself, fits with a certain tightness into a groove 5 formed by a part 6 which is an integral part of the cup body proper 1 and is provided with a collar 7. On this collar the end of a metal cap 8 rests, pressing the fold 3 of the lining against a round lip 6' formed at the top of part 6. This cap is provided with a central opening 9 and is itself held resting on collar 7 of part 6 by a rubber cap 10 provided with an opening 11 intended to give passage to the teats.

In the example given the lining 2 when slipped into the cup body 1 is held by a lid 12, of metal for instance, on which a tightening ring 13 acts. 14 represents a nozzle to which is connected the vacuum and milk collecting pipe and 15 is a nozzle to which is fitted as usually the pipe of the pulsator.

The teat cup thus constructed is mounted in the following manner:

The lining 2 is slipped into the cup body 1 and set in position by fitting the lid 12 and also the tightening ring 13. The end 3 which then projects beyond the cup body, is turned down to the position shown on the drawing and in such a way that the ring 4 comes and rests with a certain tightness in the groove formed by part 6. On the folded part of the lining is then placed the metal cap 8 and above this the rubber cap 10 which in turn fits with a certain tightness under the collar 7 of part 6. When the teat cup is in use, suction is produced through the pipe which fits on

the nozzle 14 and pulsation through a pipe which fits on the nozzle 15.

Under working conditions, the pulsations produced through the pipe 15 cause the lining 2 to be subjected to an alternate movement of compression and release. There is no danger of the ring 4 leaving the groove 5 formed by part 6, in course of this working, as in the movements of the lining under the action of the pulsations and namely in the vertical movements, the metal cap 8, which at the same time protects the upper part of the lining, prevents the ring 4 from leaving the groove in which it is lodged.

On the other hand, to take out the lining it suffices to remove the rubber cap 10 and then the metal cap 8 when the ring 4 of the lining can easily be withdrawn from the groove in which this ring is held with tightness. This operation being carried out, it is then only necessary to remove the ring 13 and to take off the lid 12 to be able immediately to withdraw the lining, without the help of any tool.

What we claim is:

1. In a teat cup for milking-machines in combination a teat cup body, a rubber lining lodged in the said teat cup, and having a greater length than the said cup body, a ring formed at the end of the said rubber lining, the cup body being provided at its upper part with a groove in which the end of the lining after having been turned outwardly over itself is engaged, a collar formed at the upper part of the cup body, immediately under the groove, a metal cap resting on the said collar and means whereby the said metal cap is held in position against the end of the lining and any displacement of the ring in relation to the teat cup body is prevented.

2. In a teat cup for milking-machines in combination a teat cup body, a rubber lining lodged in the said teat cup and having a greater length than the said cup body, a ring formed at the end of the said rubber lining, the cup body being provided at its upper part with a groove in which the end of the lining after having been turned outwardly over itself is engaged, a collar formed at the upper part of the cup body immediately under the groove, a metal cap resting on the said collar, a rubber cap fitting with tightness under the said collar whereby the said metal cap is held in position against the end of the lining and any displacement of the ring in relation to the cup body is prevented.

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