Feb. 13, 1940. L. D. FREDERICK ET AL 2,190,420

CALF FEEDER

Filed Dec. 23, 1937

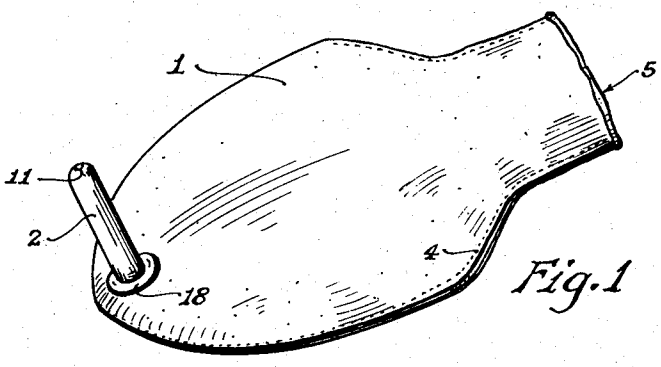


Fig. 1

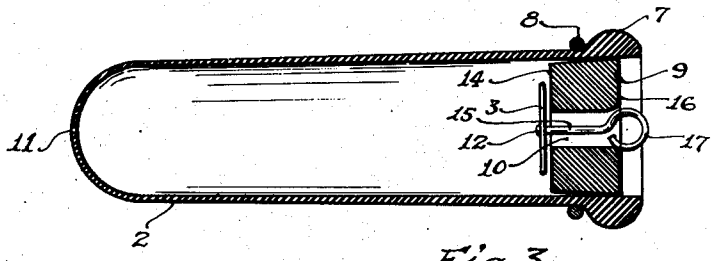


Fig. 3

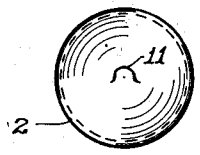


Fig. 4

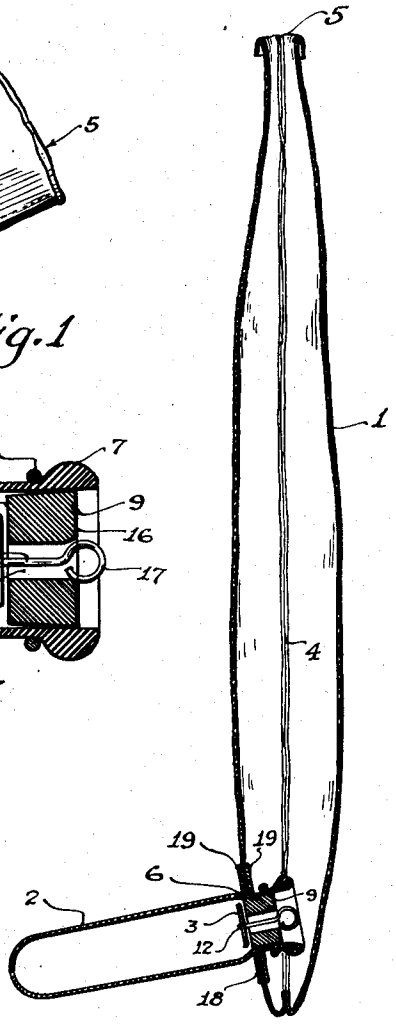


Fig. 2

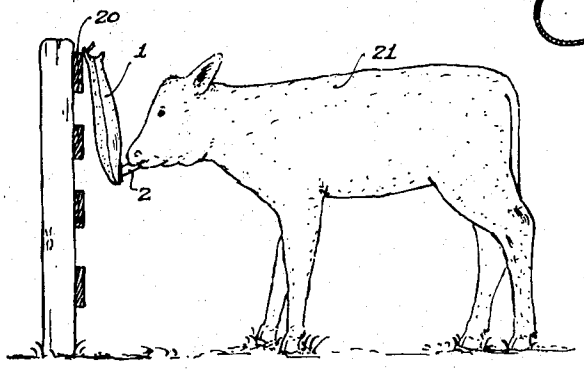


Fig. 5

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CALF FEEDER

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1 Claim. (Cl. 119—71)

This invention relates to a feeding device.

One of the objects of the invention is to provide an improved feeding device for calves and other nursing animals.

Other objects of the invention will be apparent from the description and claim which follow.

In the drawing, like characters of reference are used to designate similar parts.

Figure 1 is a perspective view of a feeding device constructed in accordance with the present invention.

Figure 2 is a side sectional view through Figure 1.

Figure 3 is an enlarged detail view of the nipple.

Figure 4 is an end view of Figure 3.

Figure 5 is a view of a calf feeding from the device shown in Figure 1.

The feeding device of the present invention comprises a feed supply bag or vessel 1 and a nipple 2 provided with a backflow check valve 3, inserted into bag 1.

Bag 1 preferably is made of rubberized canvas and may be fabricated in one piece, or, as shown in the drawing, may be formed of two pieces secured one to the other by inverted seam 4. Bag 1 is provided at its upper end with inlet opening 5, and adjacent its lower end with opening 6 through which nipple 2 is secured.

Nipple 2 is molded of latex to a teat-like form, and at its open end is provided with shoulder 7 for preventing slippage of expansible ring 8 by which it is secured to plug 9 provided with feed opening 10. Nipple 2, at its opposite end is provided with a closable opening defined by substantially semicircular slit 11.

Check valve 3 comprises plunger 12 of composition fiber or other suitable material, seatable against face 14 of plug 9, the movement of which is controlled by stem 15 passing through opening 10 and secured relative to the opposite face 16 of plug 9 as by ringed end 17. A check valve of the type just described is found especially adaptable to feeding devices in which the nipple is extended from the supply vessel substantially on the horizontal since in devices of this character operation of the valve is dependent solely upon the flow of the material.

Nipple 2 is rigidly secured through opening 6 by metal ring 18 having a press fit against nipple 2 and plug 9, and provided with annular flanges 19 between which the edge adjacent opening 6 is rigidly compressed.

In Figure 5 is shown the device of the present invention suspended from rail 20 from which a calf 21 is feeding.

We claim:

In a feeding device, a vessel having an opening therein, a nipple having an apertured end and an open end, the nipple at its open end being provided with an annular shoulder, a plug having end faces and a communication orifice therebetween inserted within the open end of the nipple, an expansible ring circumferentially securing the nipple adjacent the shoulder about the plug and means securing the nipple within the vessel opening comprising a ring having annular flanges between which is pressed the continuous edge adjacent the vessel opening and having a pressed circumferential fit about the nipple at a point between the ends of the plug,

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