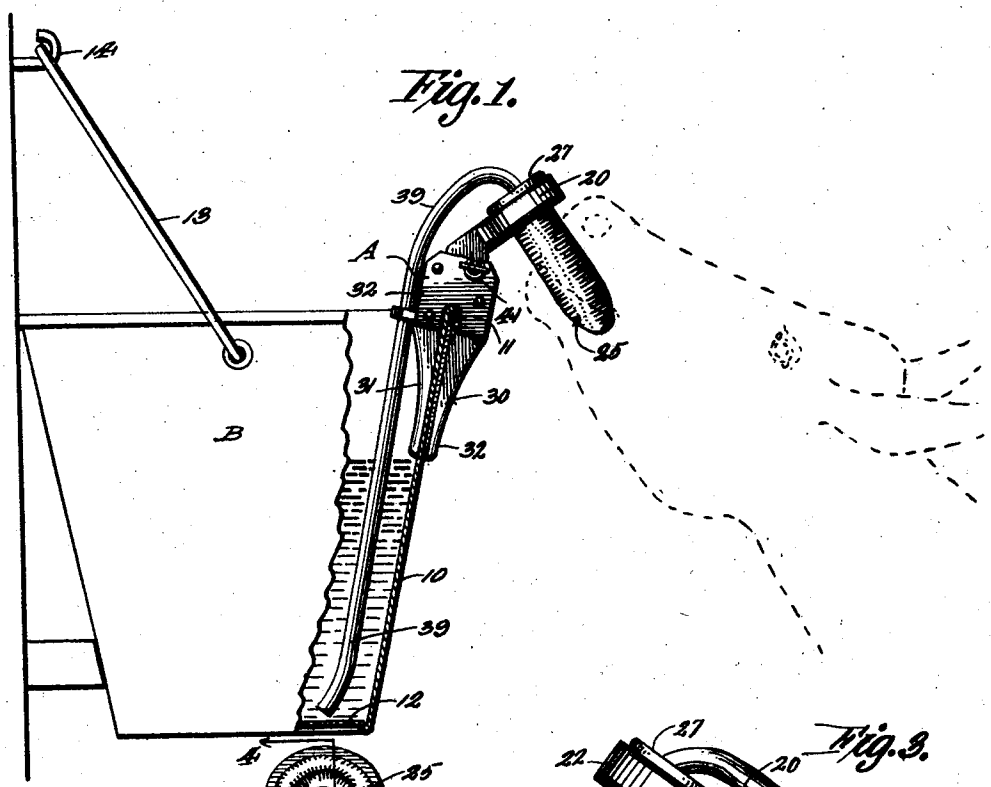
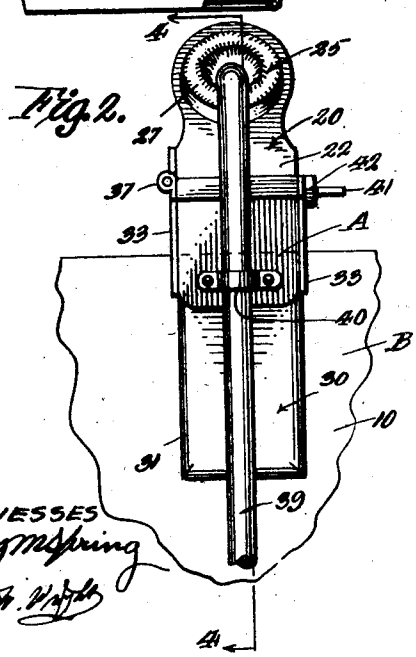
Aug. 24, 1926. 1,597,078

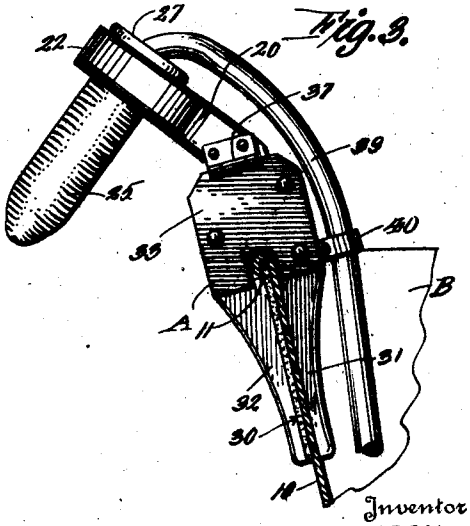
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CALF WEANER

Filed April 9, 1926 2 Sheets-Sheet 1







WITNESSES

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CALF WEANER

Filed April 9, 1926 2 Sheets-Sheet 2

Fig. 4.

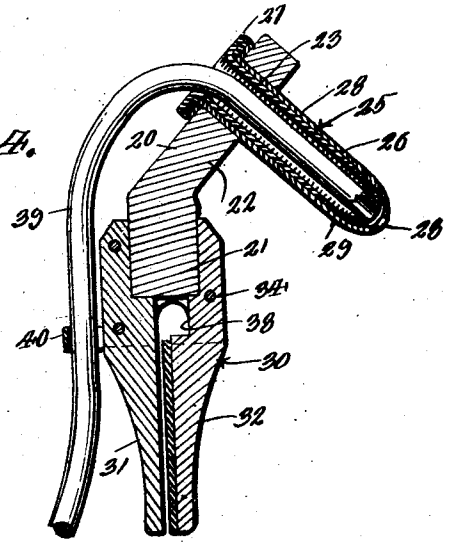


Fig. 5.

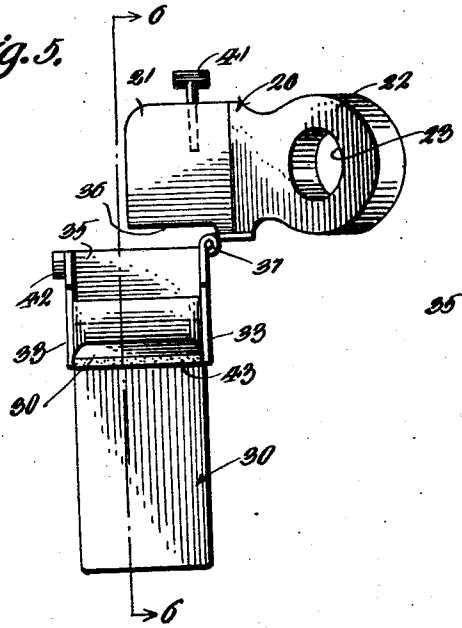
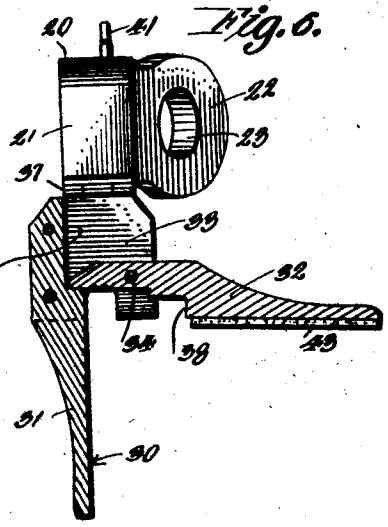


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

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CALF WEANER.

Application filed April 9, 1926. Serial No. 100,929.

This invention relates to novel means for feeding and weaning calves, and the primary object of the invention is to provide a novel device for connection with a receptacle for permitting a calf to feed itself thereby facilitating the weaning of a calf without the difficulties usually contingent therewith.

Another object of the invention is to provide a novel calf weaning and feeding device embodying a novel supporting bracket for clamping engagement with a bucket containing the food, a nipple supported by the bracket and arranged at an angle thereto, so that the calf can easily grasp the same, and means for supplying food from the bucket to the nipple.

A further object of the invention is to provide a calf feeding and weaning device embodying a clamp for connection with a bucket including jaws for engaging the opposite side of a bucket and a block carried by the jaws for supporting the nipple adapted to be swung into and between the jaws for holding the same in clamping engagement with the bucket and novel means for connecting the nipple with liquid food contained in the bucket.

A further object of the invention is to provide means for preventing swinging movement of the nipple carrying block from out of engagement with the jaws, when the jaws are in clamping contact with the bucket.

A still further object of the invention is to provide a novel calf weaning and feeding device of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture, and one which can be placed upon the market at a reasonable cost.

With these and other objects in view, the invention consists in the novel construction, arrangement, and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawings, in which drawings,

Figure 1 is a side elevation of the improved device showing the same in operative position on a bucket the bucket being broken away and in section.

Figure 2 is a rear elevation of the improved device showing the same clamped to a fragment of a bucket.

Figure 3 is a side elevation of the improved device showing the same clamped to a bucket, the bucket being shown in section, the view being opposite from that shown in Figure 1.

Figure 4 is a vertical section through the improved device taken on the line 4—4 of Figure 2 in the direction of the arrows.

Figure 5 is a detail front elevation of the device with the nipple removed and the nipple carrying block in its open position for permitting the clamping jaws to be moved to an inoperative position.

Figure 6 is a sectional view taken on the line 6—6 of Figure 5 looking in the direction of the arrow.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A generally indicates the improved calf weaning and feeding attachment and B a bucket or pail with which the same can be associated. The bucket B is of the conventional or any preferred character and includes the usual side wall 10 having a reinforcing bead 11 at its upper edge and a bottom wall 12. As shown the bucket B is provided with a bail handle 13, and in use of the device the bail handle 13 is adapted to swing over a suitable supporting hook 14, nail, or the like.

The improved attachment A comprises first a block 20 for receiving the feeding nipple 25 and clamping means 30 for permitting the connection of the device with a bucket. The block 20 includes a base portion 21 which can be of wedge shape if preferred, and an angularly extending body portion 22 provided with an opening 23, which is adapted to frictionally receive the nipple 25. The body portion 22 of the block, as shown, is arranged at acute angle to the base portion 21 for a purpose, which will be hereinafter more fully described.

The nipple 25 can be of any preferred construction and the same includes a flexible body 26 having right-angularly extending annular flange 27 formed on the inner end thereof. The flexible body 26 is adapted to be inserted through the opening 23 in frictional contact with the walls thereof, until the base 27 comes into engagement with the rear face of the body 22. A suitable opening 28 is formed in the nipple to permit the flow of liquid food. If preferred, the nipple 25 can include an outer shell or skin 28 and an inner reinforcing shell 29 for a purpose, which will be later described.

The novel clamp 30 comprises a rigid

clamping jaw 31 and a pivoted clamping jaw 32 each of which are of substantially like construction. The rigid jaw 31 has rigidly connected to the side edges thereof adjacent to its upper end, laterally extending side frame plates 33, between which is positioned the upper end of the jaw 32, and a pivot pin 34 is utilized for connecting the pivoted jaw and end plates. By this arrangement the jaw 32 can be moved relative to the jaw 31 and the inner faces of the jaws 31 and 32 above the pivot pin 34 are provided with mating recesses 35 which define a pocket for the base 21 of the block 20, as will be now described. Again referring to the block 20, it is to be noted that one side edge block is cut away as at 36, directly above said cut portion and between the base 21 and body 22, the block is connected to one of the frame plates 33 by a hinge 36, whereby the block can be swung laterally of the clamp 30. By this arrangement the block or the base portion of the block can be swung into and out of the pocket 35 and when the block or base portion of the block is swung into the said pocket, the jaws 31 and 32 are held in a clamping position. The pivoted jaw 32 directly below the pivot pin 34 is further notched as at 38 to receive the bead 11 of a bucket or pail when the clamp is associated therewith.

In use of the device, the block 20 is swung laterally of the clamp and the jaws of the clamp are placed over a bucket with the bead 11 resting in the notch 38. The block is now swung in the pocket 35 which will urge the jaws 31 and 32 into gripping contact with the bucket and lock said jaws in place. A rubber hose or tube 39 is now associated with the nipple and can be permanently secured to the inner skin 29 thereof and this hose or tube is placed within the milk or other food in the pail. A guide eye 40 is carried by the outer face of the jaw 31 for receiving the said tube 39. The outer surface of the nipple can be moistened with the milk and placed in the calf's mouth and the suction exerted on the nipple by the calf will lift the milk up from the bucket and into the nipple.

In order to prevent accidental displacement of the block from out of engagement with the jaws, the base portion 21 of the block 20 is provided with a rotatable locking button 41 which is adapted to swing into engagement with a socket 42 formed on one of the frame plates 33.

From the foregoing description, it can be seen that I have provided a novel calf weaner and feeding device, which is of simple and durable character and which will entirely eliminate the difficulties heretofore experienced in weaning calves.

If preferred, the inner faces or only one inner face of one jaw, can be provided with a flexible gripping plate or pad 43, as clearly shown in the drawings.

Changes in details may be made without departing from the spirit or the scope of the invention, but what I claim as new is:

1. A calf weaning and feeding device comprising a clamp for connection with a bucket, a nipple holder extending angularly from the clamp, a nipple detachably associated with the holder, and a flexible tube extending to the nipple into the bucket.

2. A calf feeding and weaning device comprising a clamp for connection with a receptacle, an angularly extending block associated with the clamp having an opening therein, a nipple fitted within the opening having a stop flange for engagement with one face of the block, and a flexible tubing extending into the nipple and connected therewith and adapted to be placed in the receptacle.

3. A weaning and feeding device for young animals comprising a clamp including a pair of hingedly connected jaws, a block suitably secured to one of the jaws above the pivot point of the jaws for swinging movement between the jaws for holding the same in a clamping position, a nipple associated with the block extending at an angle to the clamp, and a flexible tube carried by the nipple adapted to extend into the receptacle.

4. A feeding and weaning device for young animals comprising a clamp for connection with a receptacle including a rigid jaw, frame plates connected to the sides of the jaw adjacent to the upper end thereof, a movable jaw pivotally connected between the frame plates, a block hingedly connected to one of the frame plates, adapted to be swung into and out of engagement with the jaws above the pivot point of the movable jaw for holding the jaws against movement relative to one another, an angularly extending supporting plate forming a part of the block, a nipple associated with said plate, and a flexible feeding tube carried by the nipple and adapted to extend into said receptacle.

5. A feeding and weaning device for young animals, comprising a clamp for connection with a receptacle including a rigid jaw, frame plates, rigidly secured to the side edges of the jaw adjacent to the upper end thereof, a movable jaw pivotally secured between the frame plates, the inner faces of the jaws above the pivot pin being provided with companion recesses, defining a pocket, a block including a base and an angularly extending supporting plate, means rockably connecting the block and for connection to the base with the plate to one of the frame plates, the same being adapted to be swung into and out of the pocket for holding the jaws in clamping position, a nipple carried

by the angularly extending plate, and a flexible hollow tube connected with the nipple adapted to extend into a receptacle, and means for normally preventing swinging movement of the block relative to the frame plates.

6. The combination with a bucket having a side wall and an annular bead at the upper end of the side wall, of a weaning and feeding device comprising a clamp including a rigid jaw, frame plates connected to the side edges of the jaw at the upper end thereof, a movable jaw pivotally connected between the frame plates, the inner faces of the jaws above pivot point of the movable jaw being provided with mating recesses, defining a pocket, the jaws below the pivot point of the movable jaw being adapted to receive the side wall of the bucket, one of the jaws having a recess to receive the bead on the side wall, a block including a base and an angularly extending supporting plate, means hingedly connecting the block at the point of connection of the base and plate with one of the frame plates, whereby the base can be swung into and out of said pocket for holding the jaws against relative movement, the supporting plate being provided with an opening, a nipple associated with the opening, a hollow flexible tube connected with the nipple and adapted to extend into the bucket and means for preventing swinging movement of the block relative to the clamp.

In testimony whereof I affix my signature.

HENRY KNUTSON.