H. C. BERRY & S. B. EPLER.

CALF FEEDER.

APPLICATION FILED FEB. 18, 1909.

966,645.

Patented Aug. 9, 1910.

2 SHEETS—SHEET 1.

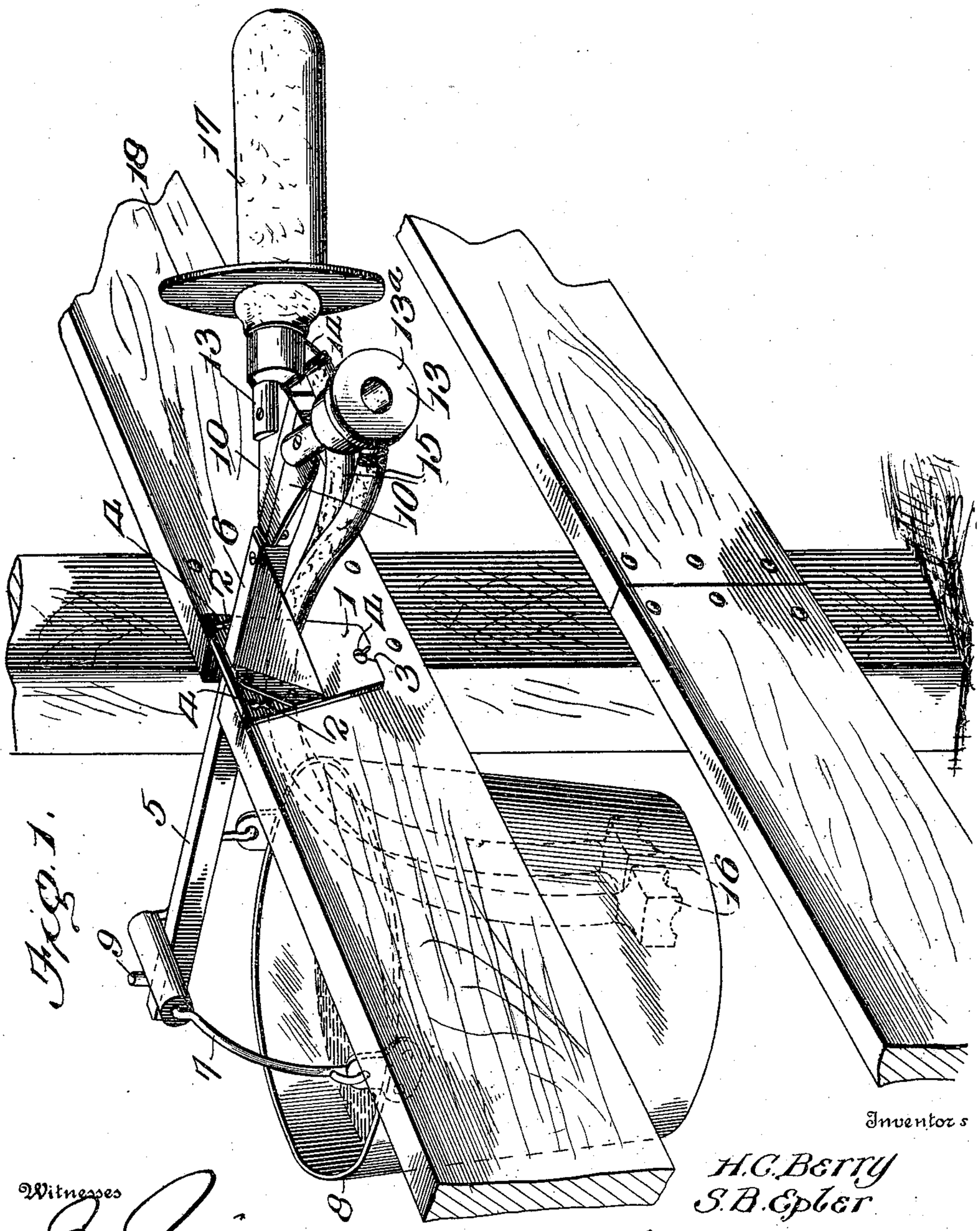

Fig. 1.

Witnesses

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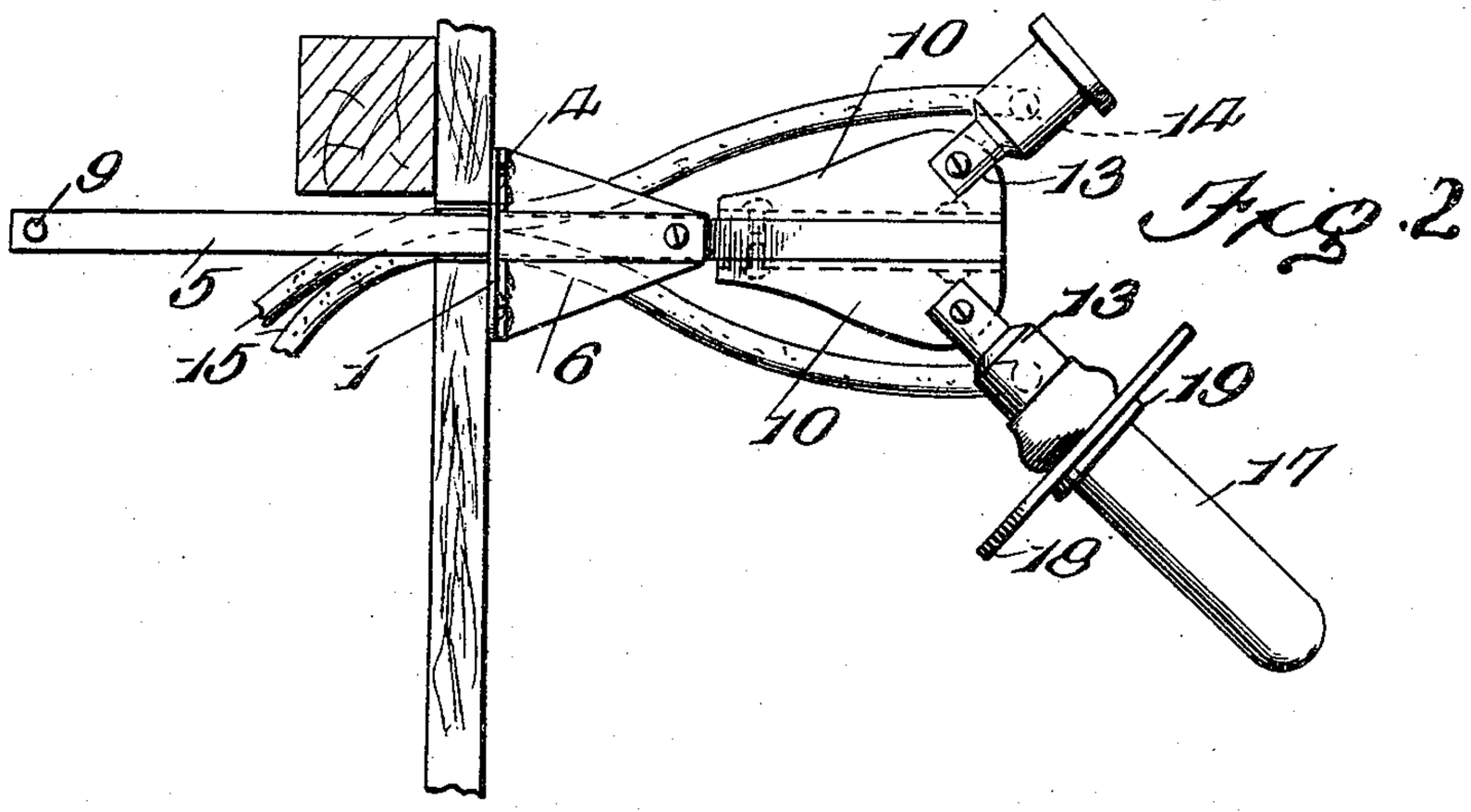

Fig. 2.

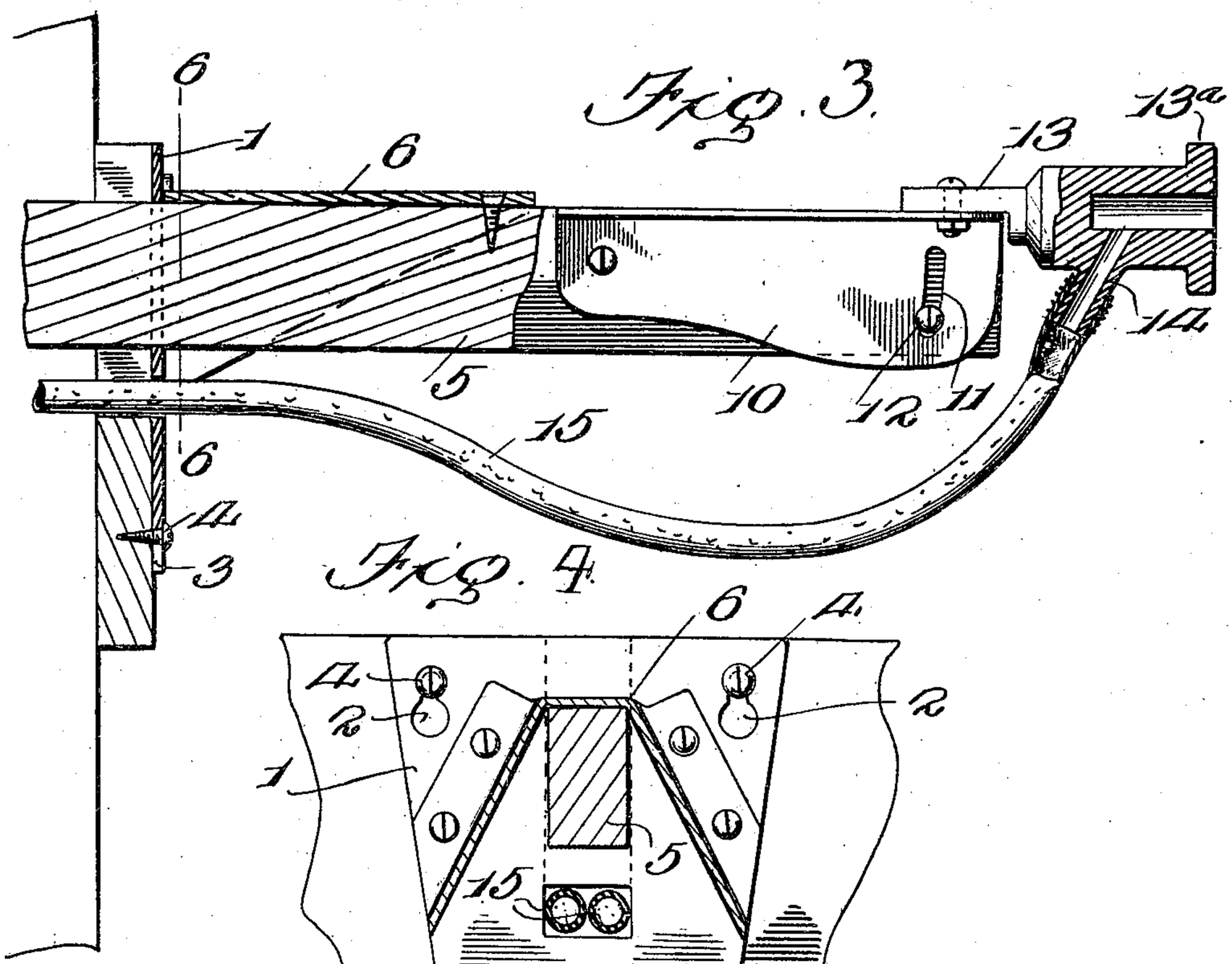

Fig. 3.

Fig. 4.

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UNITED STATES PATENT OFFICE.

HARRY C. BERRY AND SAMUEL B. EPLER, OF TOLEDO, OHIO, ASSIGNORS OF ONE-THIRD TO TILTON W. HOWARD, OF TOLEDO, OHIO.

CALF-FEEDER.

966,645. Specification of Letters Patent. Patented Aug. 9, 1910.

Application filed February 18, 1909. Serial No. 478,627.

To all whom it may concern:

Be it known that we, HARRY C. BERRY and SAMUEL B. EPLER, citizens of the United States, both residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Calf-Feeders, of which the following is a specification.

The present invention relates to an improved device for feeding sucklings such as young calves and colts, and the object of the invention is the provision of an inexpensive device of this character which can be readily mounted upon a fence or building, and which comprises few and simple parts which can be readily taken apart and cleaned.

The invention further contemplates a feeding device for sucklings in which the nipples are movably mounted so as to readily accommodate themselves to the mouth of the animal and prevent injury thereto, and in which the milk receptacle is supported out of the reach of the animal.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a calf feeder embodying the invention; Fig. 2 is a perspective view of the outer end of the bar; Fig. 3 is a vertical longitudinal sectional view through the device; Fig. 4 is an enlarged transverse section through the supporting bar.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the present embodiment of the invention, the numeral 1 designates a plate which is provided at its upper portion with a pair of inverted key hole slots 2, and at its lower edge with a notch 3. These two key hole slots and the notch are designed to engage headed studs such as the screws 4 to hold the plate in position. However, by lifting the plate until the heads of the upper screws 4 are opposite the enlarged lower ends of the key hole slots and the head of the lower screw is disengaged from the plate, the plate can be removed from the support. Supported at an intermediate point in its length upon this plate is a bar 5, a brace member 6 being utilized to prevent any swinging movement of the bar with respect to the plate. One end of the bar 5 projects upon the opposite side of the fence or partition to that upon which the calf or young animal is located, and is designed to engage the bail 7 of a milk receptacle such as the pail 8. In the present instance this end of the bar 5 is provided with a lug 9 for engagement with the bail 7 to prevent the latter from slipping over the end of the bar. The opposite end of the bar 5 carries a pair of angle plates 10, one of the wings of each of the plates being pivoted at one end to a side of the bar so that the plate can swing about a horizontal axis, the opposite end of the wing being formed with a slot 11 loosely receiving a pin 12. These pins 12 coöperate with the said slots 11 to limit the vertical swinging movement of the plates. The opposite wing of each of the angle plates 10 carries a head 13 which is pivotally connected thereto so as to swing about a vertical axis. These heads have a hollow formation and are provided upon their lower sides with the outwardly projecting sleeves 14 which communicate with the interior of the heads and have the feed tubes 15 applied thereto. These feed tubes pass through an opening in the plate 1 and extend downwardly into the milk receptacle 8, the free ends of the feed tubes having the usual weights 16 applied thereto to keep them submerged within the receptacle. The outer end of each of the heads 13 is formed with an annular enlargement or rib 13ª which serves to prevent the nipple 17 from pulling away therefrom. It will thus be obvious that the nipples are so mounted as to swing freely about both a horizontal axis and a vertical axis, and that they can readily accommodate themselves to the movements of the animal so as to prevent injury to the mouth thereof.

Having thus described the invention, what is claimed as new is:

1. In combination a plate, a support for said plate, a bar engaged through said plate and supported thereby, a lug formed on one end of said bar, a brace positioned across said bar and said plate at its inner end and projected upwardly therefrom, a receptacle hung upon said bar against said lug, a pair of angled plates engaged upon opposite edges of said bar at the forward end there-

of, one of the wings of each of said plates being pivoted to said bar at its inner end, the opposite end of each of said wings having arcuate slots formed therein, pins carried by said bar for engagement through the slots to retain said plates in position, hollow heads pivotally mounted upon the opposite wings of said plates, feed tubes extended from said heads to said receptacle, and nipples mounted on said heads.

2. In a calf feeder, the combination of a bar, a support for said bar engaged therewith intermediately of the ends of said bar, a receptacle pendent from one end of said bar at one side of said support, a head disposed upon the opposite end of said bar at the opposite side of said support, nipples mounted on said head, and feed tubes extended from said nipples to said receptacle, said tubes being passed through said support for retaining the tubes in a protected position.

3. A calf feeder including a bar, a plate engaged about said bar intermediately of the ends thereof, a brace carried by said plate at the forward side thereof and engaged over said bar, a lug positioned upon the rear end of said bar, a receptacle pendent from said bar and engaged against said lug at one side of the plate, a pair of angle plates pivotally mounted upon the forward end of said bar at the opposite side of said plate, heads pivotally located upon said angle plates, nipples carried by said heads and feed tubes extended from said heads to said receptacle, said feed tubes being passed through said plate beneath said brace to protect the same.

4. A calf feeder including a plate having keyhole slots formed therein, headed studs mounted upon a rigid support for engagement in the keyhole slots to detachably retain said plate in position, a bar passed through said plate at right angles thereto, a brace formed of a sheet of metal carried by said plate and passed over said bar, a pair of angle plates pivotally disposed against the opposite sides of said bar for movement about a horizontal axis, heads pivotally secured to said angle plates for movement about a vertical axis, nipples carried by said heads, feed tubes extended from said head and passed through said plate, said tubes being engaged beneath said brace to protect the same, a lug formed upon the inner end of said bar at the opposite side of said support, and a receptacle hung from said bar against said lug to receive the inner ends of said tubes at the opposite side of said plate.

5. A calf feeder including a plate, a bar engaged through said plate and extended oppositely from the same, a brace carried by said plate against the forward face thereof and engaged over said bar, a receptacle hung from one end of said bar at one side of said plate, a pair of heads mounted upon the opposite end of said bar at the opposite side of said plate, said heads being mounted for vertical and horizontal movement, and feed tubes extended from said heads to said receptacle, said tubes being passed through said plate beneath said bar and under said brace.

6. In a calf feeder the combination with a support, of a plate detachably engaged upon said support, a bar extended through said plate and projected from the opposite sides of the same, a receptacle pendent from one end of said bar at one side of said support, a pair of nipples pivotally mounted on the opposite end of said bar for vertical and horizontal movement, and feed tubes disposed between said nipples and said receptacle, said tubes being passed through said plate beneath said brace for the protection of the same.

In testimony whereof we affix our signatures in presence of two witnesses.

HARRY C. BERRY. [L. S.]
SAMUEL B. EPLER. [L. S.]

Witnesses:
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A. M. COOK.