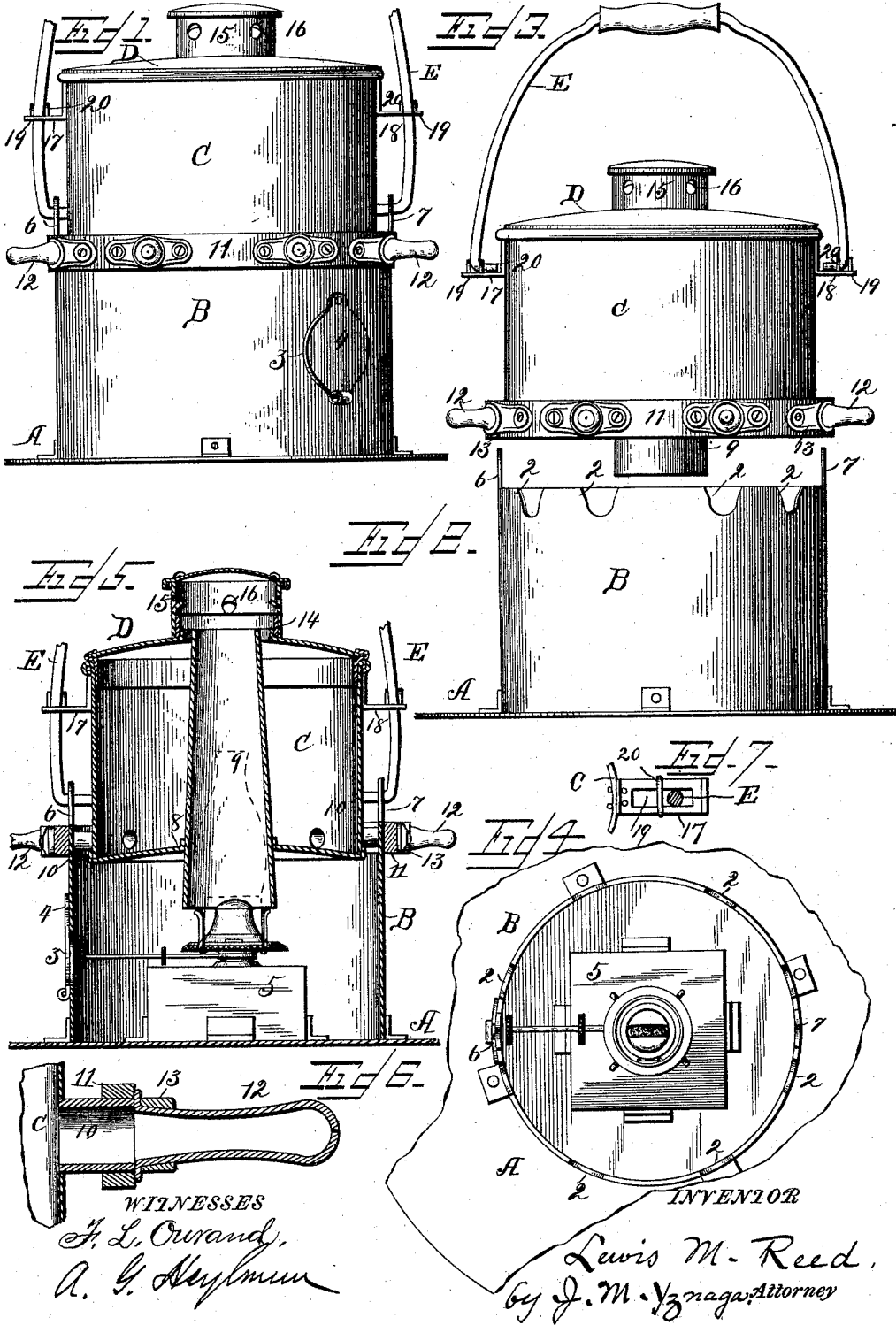


(No Model.)

L. M. REED.  
FEEDING DEVICE FOR ANIMALS.

No. 476,310.

Patented June 7, 1892.



# UNITED STATES PATENT OFFICE.

LEWIS M. REED, OF PATTERSON, KANSAS, ASSIGNOR OF ONE-HALF TO JAMES W. HICKMAN, OF SAME PLACE.

## FEEDING DEVICE FOR ANIMALS.

SPECIFICATION forming part of Letters Patent No. 476,310, dated June 7, 1892.

Application filed January 5, 1892. Serial No. 417,108. (No model.)

*To all whom it may concern:*

Be it known that I, LEWIS M. REED, a citizen of the United States of America, residing at Patterson, in the county of Harvey and State of Kansas, have invented certain new and useful Improvements in Devices for Feeding Animals; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to means for feeding small or young animals; and the object is to provide improved means whereby young and dependent animals—such as little pigs and calves—may be provided with food, which they take from the food-receptacle much in the manner that nature furnishes them; and with this object in view my invention consists in the novel features of construction and their combination, as will be hereinafter fully described, and as the same is particularly pointed out and distinctly claimed.

In the accompanying drawings, Figure 1 is a side view of my improved stock-feeder. Fig. 2 is a view of the base portion or heating-drum of the feeder. Fig. 3 is a view of the upper portion of the feeder, being the food-receptacle. Fig. 4 is a plan view of the bottom portion of the apparatus. Fig. 5 is a vertical central section of the food-receptacle and the heating-drum arranged together and the lamp in the lower portion or drum. Fig. 6 is sectional detail of the teat. Fig. 7 is a plan detail of one of the bail-ears on the food-holder.

A designates the base-plate, consisting of a plate of such size and shape as may be desired, the purposes being to leave a rather wide flange surrounding the vertical supporting portion arranged on the base-plate. The plate is preferably made of sheet metal.

B designates the lower casing or heating-drum, consisting of an inclosure for the heating means and a support for the feed receptacle or holder. This heating-drum is preferably a cylinder having its lower edge firmly

secured to the base-plate by any suitable means. I have shown it as being secured and riveted thereto by brace-pieces. In the top edge of the cylinder or heating-drum are formed recesses 2, as many as may be desired, in which the bases of the food-ports rest when the food-holder is in position. In the heating-drum is a port or opening 3, closed by a slide 4, through which port 3 the thumb-piece of the wick-raiser of the lamp 5 can be conveniently reached for manipulation and the flame of the lamp thus regulated. The lamp is detachably secured in the drum and to the bottom thereof. On the opposite sides of the heating-drum are bail-ears 6 7, having holes to take and retain the hooks of the bail by which the device may be carried from place to place.

C designates the food-holder, consisting of a cylindrical vessel of such size as may be desired and of less diameter than the heating-drum or base portion, in or on which it rests, substantially as shown in Figs. 1 and 5 of the drawings. The bottom 8 of the food-holder is higher in the central part, so that the liquid food will have a tendency to run outward and drain the vessel.

In the center of the food-holder is arranged and secured the flue or lamp-chimney 9, the lower portion extending below the bottom and the upper portion or top reaching above the rim or edge of the food-holder, as seen in the drawings. This chimney serves as the draft to the lamp, and by this means the current is created and the radiations from the pipe, constituting the chimney, heat the food in the receptacle. In the holder just above or on a line with the upper surface of the bottom are secured a number of short tubes 10, radially arranged and adapted to fit in the recesses 2 of the heating-drum, as shown. The outer ends of these short tubes 10 support an annular ring 11, which, when the food-holder is put on the heating-drum, sets around the outside of the latter and serves to prevent damage at the intersection of the parts. To each of the short tubes 10 is secured a flexible teat 12, having a small puncture at the end, through which the food is drawn when the animal sucks on it when taking its food.

These flexible teats are made of india-rubber and are clamped tightly against the outer ends of the short tubes 10 by means of clamping-plates 13, secured to the ring 11, substantially as seen in the drawings.

D designates the lid of the food-holder, of the usual construction, to set on a cylindrical vessel and having a central opening 14, having arranged over it a hood or cowl 15 to set over it, the wall of the hood having openings 16 to let the current from the lamp escape. The hood may be hinged to the lid. When desired, the flame of the lamp may be viewed through the chimney when regulating the flame.

On the sides of the food-holder near the top are secured bail-ears 17 18, formed with slots 19, and having a cross-piece 20 of wire secured across the slots, as shown, one of the ears being illustrated in detail in Fig. 7 of the drawings. As the bail E must be adapted to carry either the food-holder alone or both vessels when set together, it is made detachable at both places, and hence may be pushed down through the slots of the ears 17 and 18 until the turned-in ends can be sprung into the holes in the bail-ears of the heating-drum, as shown in the drawings.

When it is desired to remove the food-holder from its seat on the heating-drum, the turned-in ends of the bail are sprung out of the ears and the bail drawn up until the hooks engage the wires of the bail-ears on the food-holder, and then the holder may be lifted and carried by the bail. It will be perceived that when the bail is engaged in the ears of the

heating-drum they also serve as a locking means to hold the heating-drum and food-holder together, since the ears of the drum project above the ring 11 and the turned-in ends of the bail engage or rest on the upper surface of the annular ring and thus hold the parts together.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of the supporting heating-drum adapted to hold a heating means and formed with recesses in its upper edge and the food-holder having a draft-chimney, tubes in the holder, adapted to drain the holder and set in the recesses of the heating-drum, an annular ring on the outer end of the tubes, and teats clamped to the annular ring over the open ends of the tubes, substantially as described.

2. In a feeding device for animals, the combination of a heating-drum formed with recesses in its upper end and having bail-ears, a food-holder having radially-disposed tubes, and an annular ring arranged about the base of the food-holder on said tubes, and a bail the ends of which engage the ears of the drum and lock the holder and heating-drum together, substantially as described.

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

LEWIS M. REED.

Witnesses:

N. P. BELL,

C. E. LIVENGOOD.