

(No Model.)

2 Sheets—Sheet 1.

J. H. STEWART.
COMBINED MILKING STOOL AND BUCKET.

No. 410,658.

Patented Sept. 10, 1889.

Fig. 5.

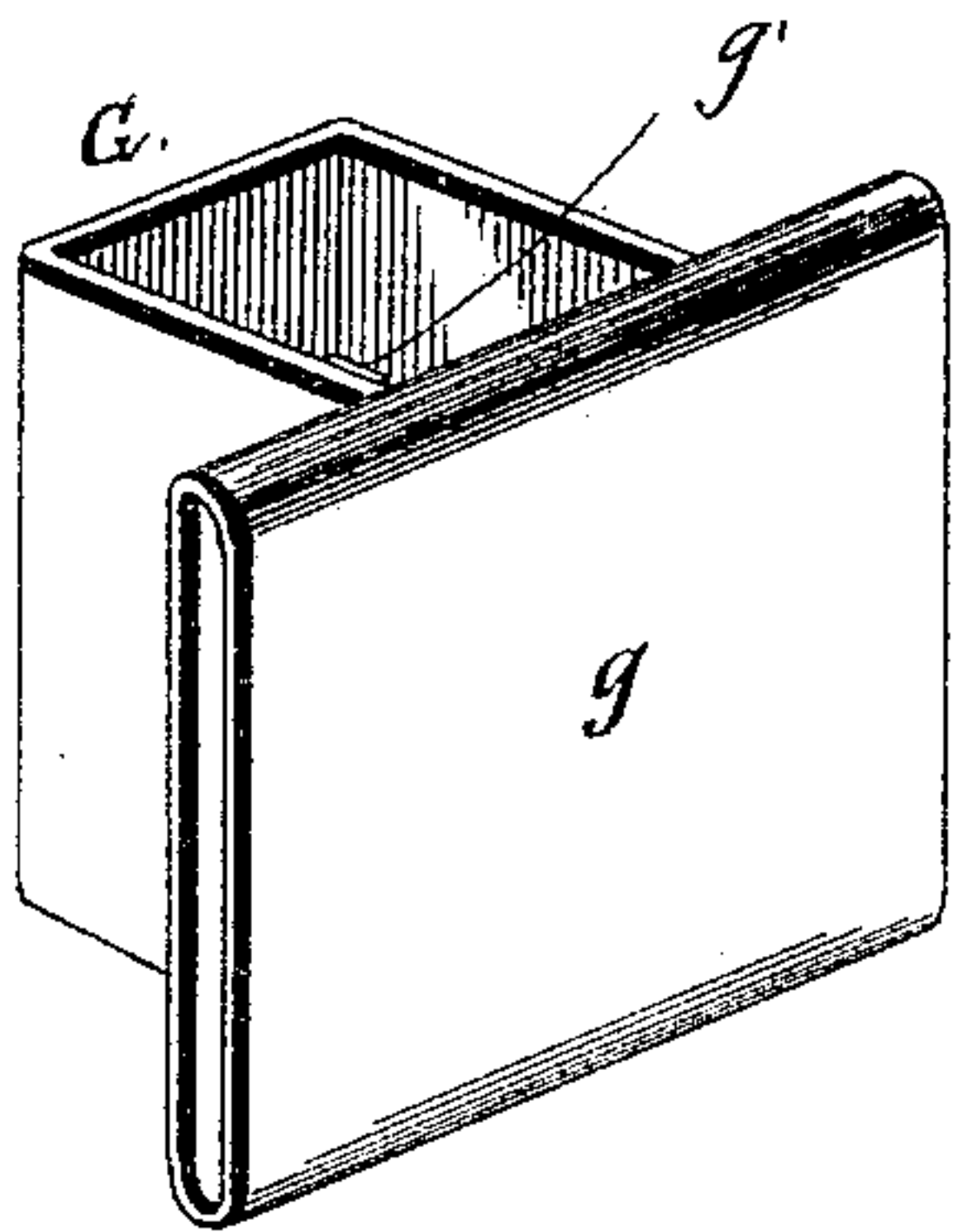


Fig. 1.

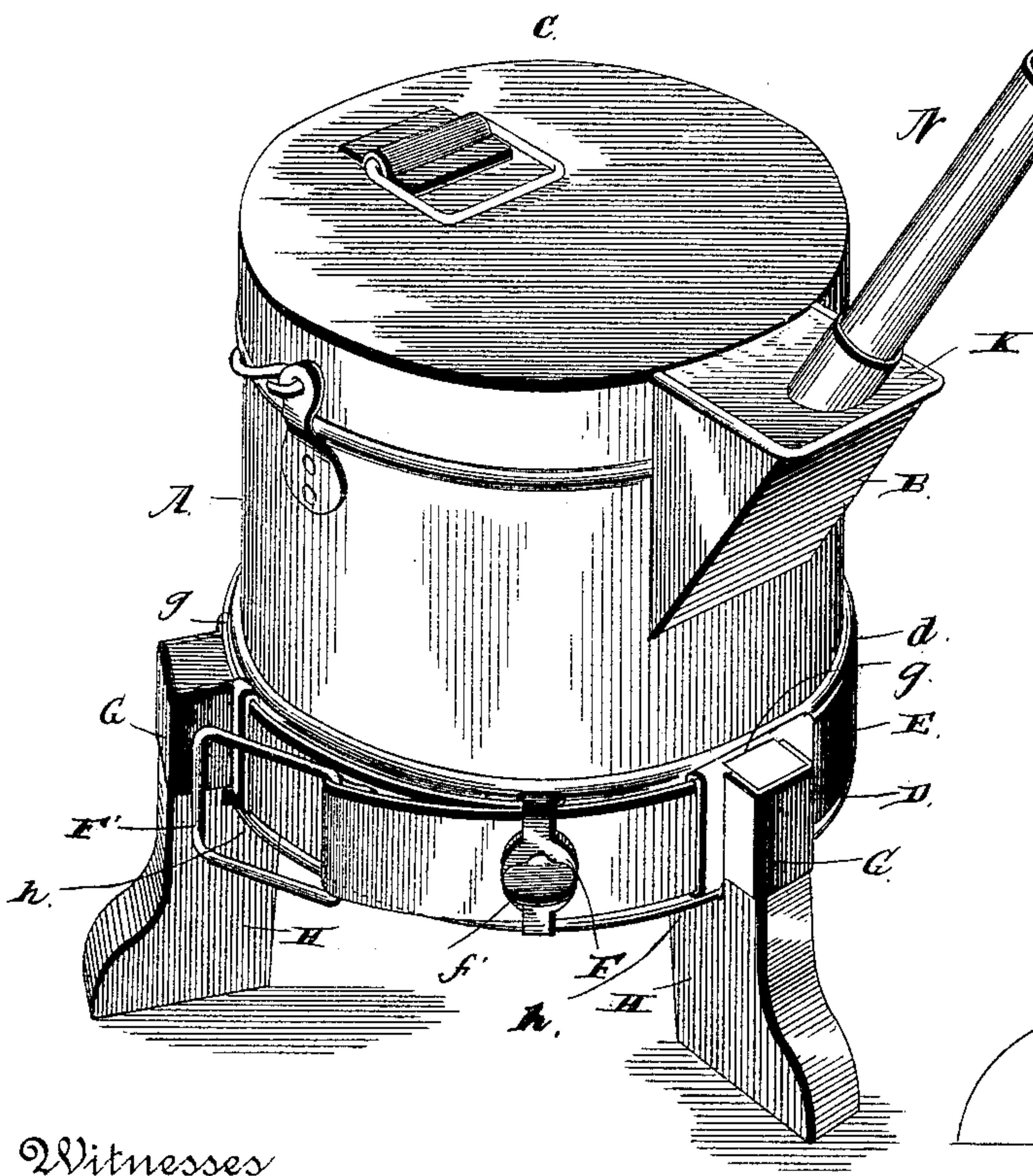
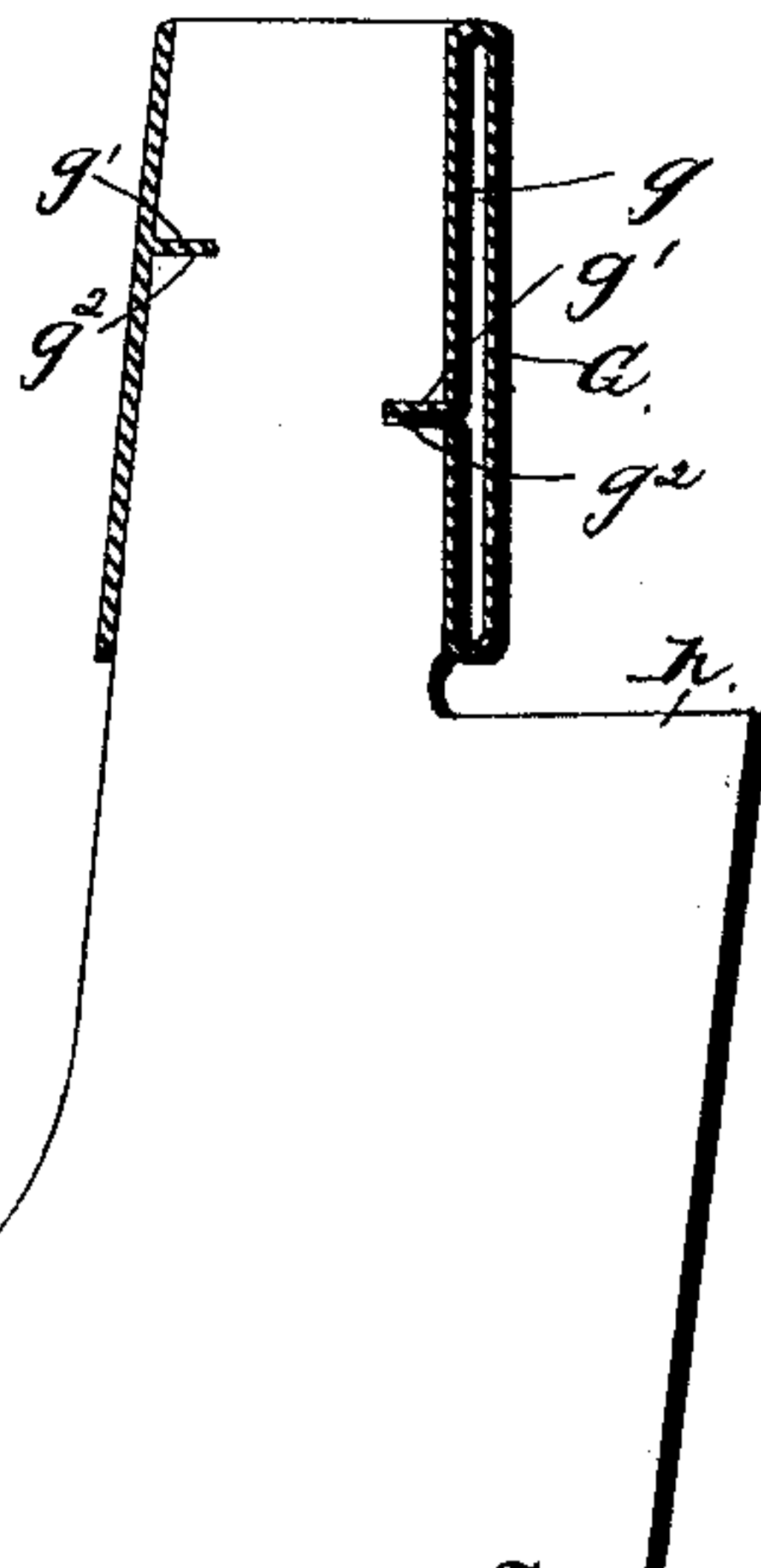


Fig. 4.



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Fig. 6.

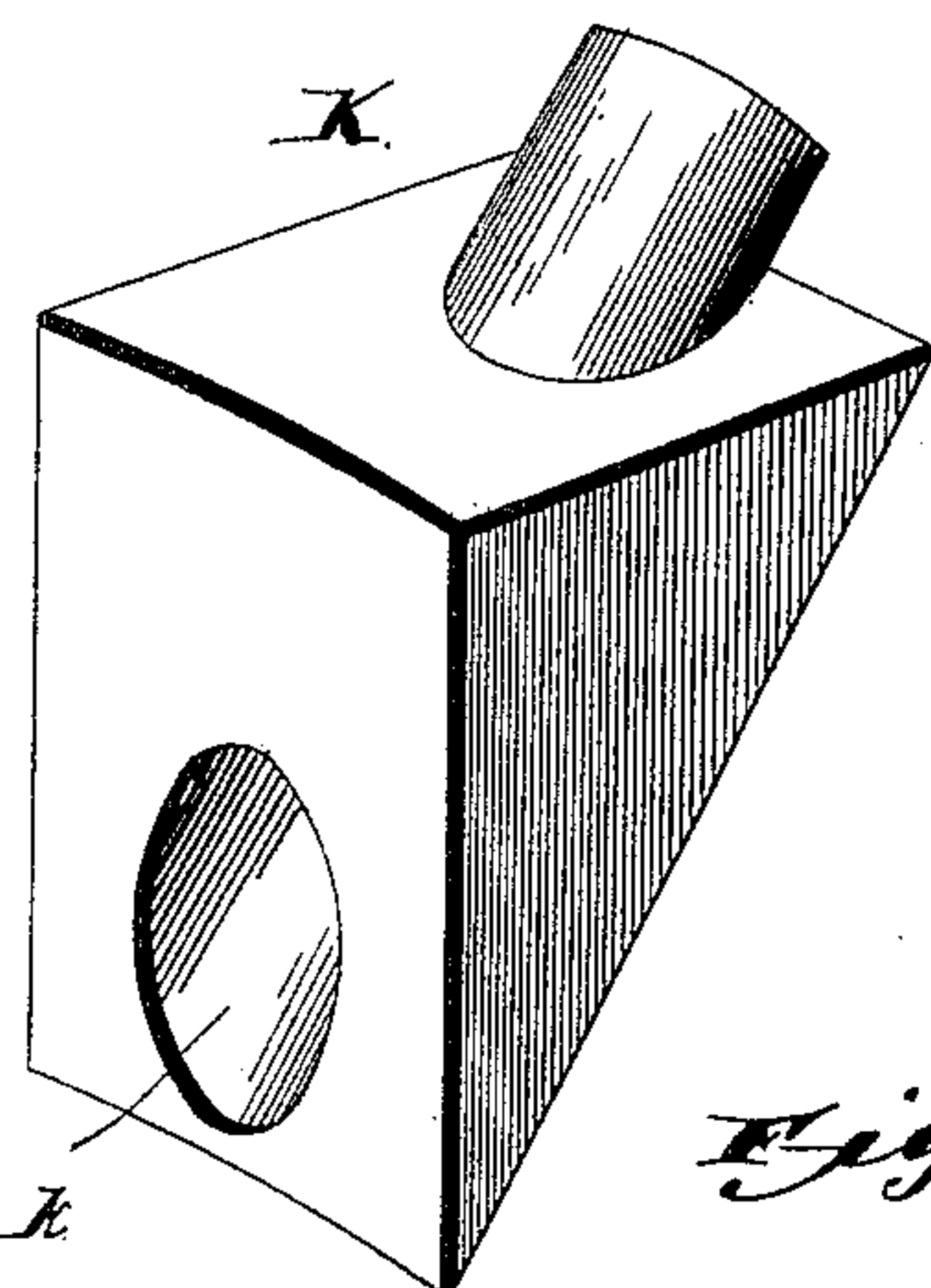


Fig. 2.

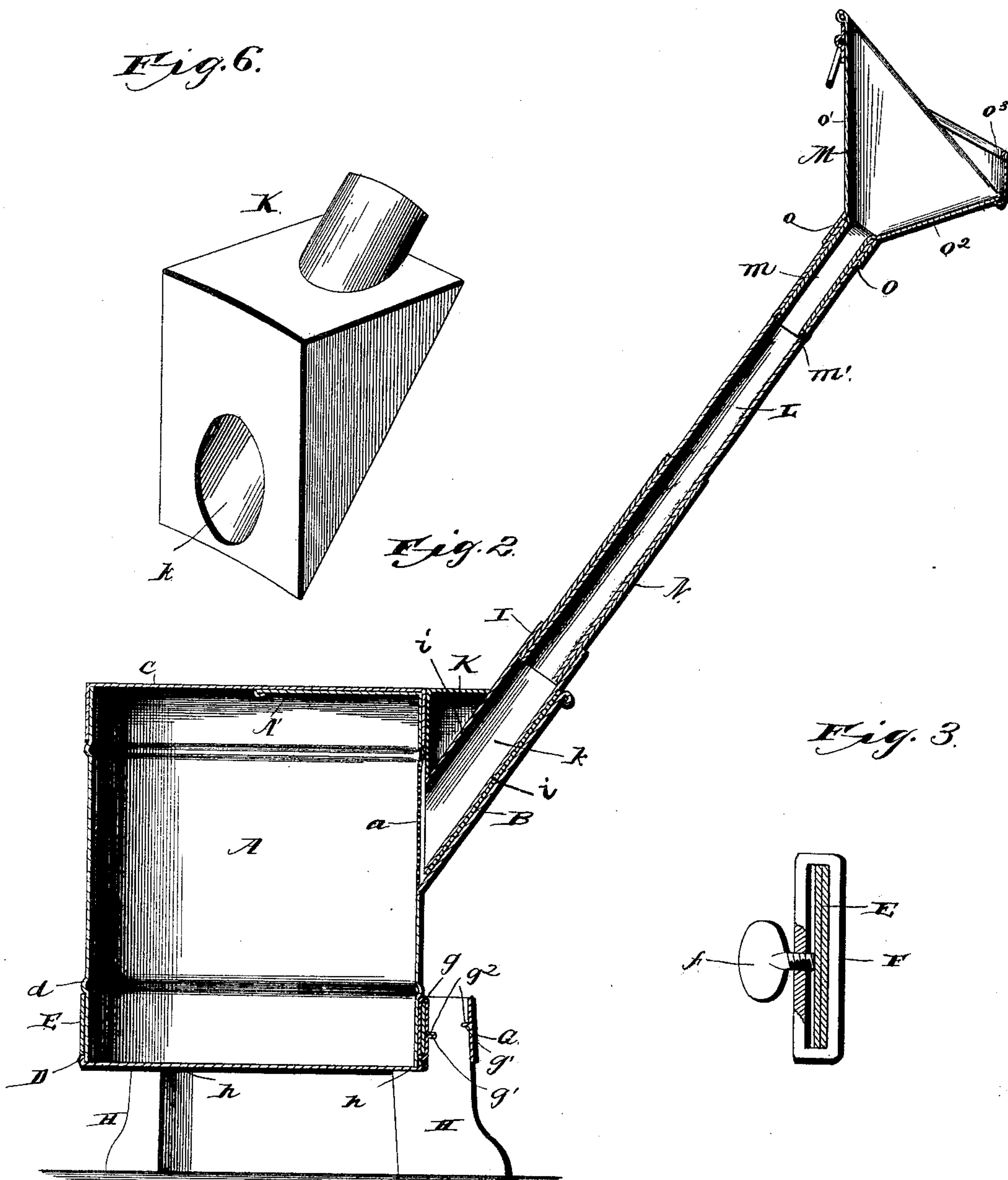
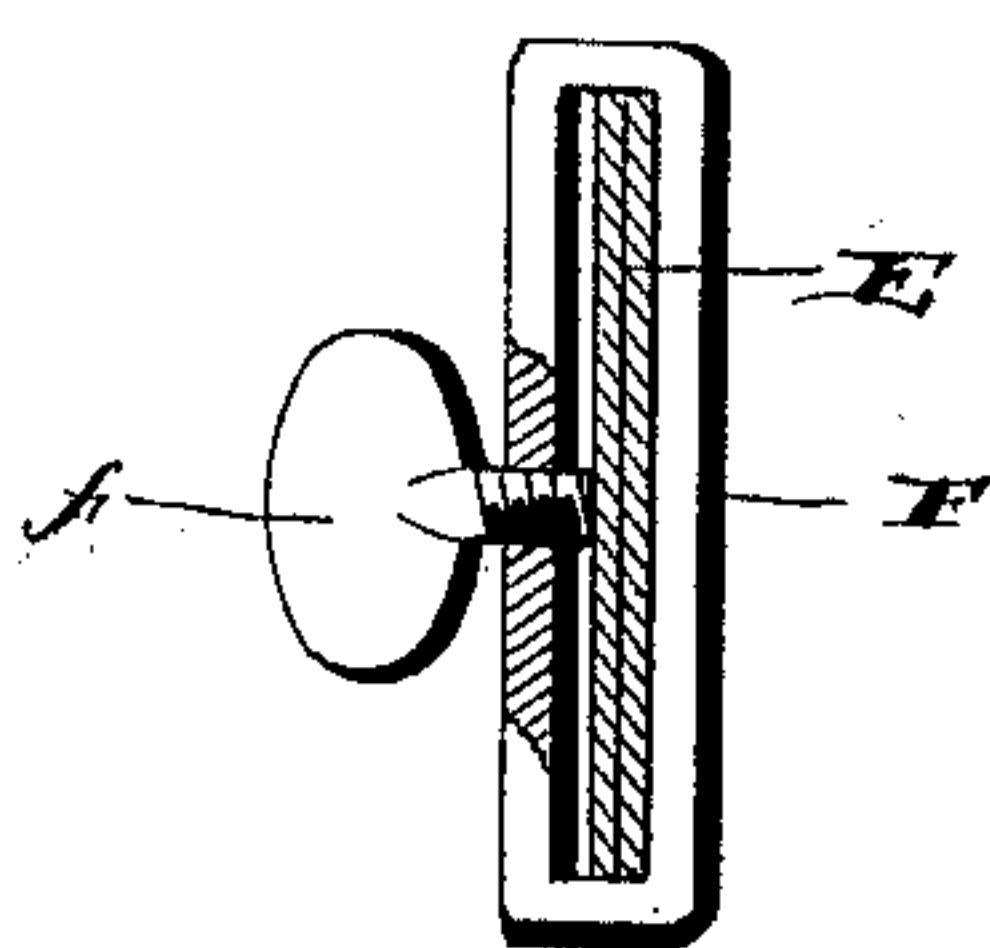


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN HANNIBAL STEWART, OF REIDSVILLE, NORTH CAROLINA.

COMBINED MILKING STOOL AND BUCKET.

SPECIFICATION forming part of Letters Patent No. 410,658, dated September 10, 1889.

Application filed November 6, 1888. Serial No. 290,155. (No model.)

To all whom it may concern:

Be it known that I, JOHN HANNIBAL STEWART, a citizen of the United States, residing at Reidsville, in the county of Rockingham and State of North Carolina, have invented a new and useful Improvement in a Combined Milking Stool and Bucket, of which the following is a specification.

My invention relates to a combined milking stool and bucket; and it consists in a certain novel construction and combination of devices, fully described hereinafter in connection with the accompanying drawings, and specifically pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a combined stool and bucket embodying my improvements. Fig. 2 is a vertical central sectional view of the same. Fig. 3 is a detail sectional view of the clamp which connects the free end of the belt. Fig. 4 is a vertical sectional view of one of the legs and the stirrup in which it is secured. Fig. 5 is a detail view of one of the stirrups. Fig. 6 is a similar view of the block.

Referring by letter to the drawings, A designates the bucket, which is provided on its front side near the top with the usual lip or spout B, which communicates with the interior of the bucket through the screened opening *a*; and A' represents an overhanging hood or half-cover, which extends over the top of the bucket at its front side. A flat cover C fits on the top of the bucket over the said hood and forms the seat for the milker.

The bucket is provided at its bottom with a lateral flange D and a short distance above its bottom with the rib *d*; and E represents a belt, of metal, leather, or other suitable material, which encircles the bucket between the flange D and rib *d*. A yoke F is secured to one end of the said belt, and the other end of the belt is passed through the yoke and engaged at any desired point by the set-screw *f*, which clamps the belt against the inner side of the yoke. By means of this clamp the belt may be adjusted to the side of the bucket to which it is applied and may be removed at will. A swinging loop F' is attached to the free end of the belt to enable the latter to be drawn tightly around the bucket.

G G represent stirrups—three or more in number—which are arranged at intervals on the belt to receive the upper ends of the legs H H, and the legs are provided below the lower edge of the belt with the inward-extending shoulders *h h*, which project under the bottom of the bucket and assist in supporting the same. The stirrups are provided on their inner sides with keepers *g g*, which receive and slide on the belt, so as to enable the stirrups to be arranged at equal intervals around the periphery of the bucket and suit the size of the bucket. Ribs *g' g'* on the outer and inner sides of stirrups project into grooves or depressions *g² g²* in the outer and inner sides of the legs to prevent the latter from being displaced. The legs are inserted in the stirrups as the latter are formed—namely, as the outer side of the stirrups are folded around and before their free edges are secured.

K represents a wedge-shaped block fitting snugly in the lip or spout of the bucket and provided with an inclined bore *k*, and I represents a short tube secured to the upper side of the block and communicating with the bore. This block may be solid, with the exception of an inclined bore extending there-through, or it may be hollow and formed of sheet metal, as shown clearly in Fig. 2 of the drawings. The object of the block is to fill the spout and close the same, with the exception of the small opening or bore, the said bore being formed by an inclined tube *i*, which communicates at its lower end with the interior of the bucket, and projects at its upper end above the block to form the short tube I. The tube *i* is omitted when the block is solid, as the bore of the said tube merely takes the place of a bore through the block.

L represents a flexible tube fitting at its lower end in the tube I and the bore of the block, and to the upper end of the flexible tube is attached the receiver or funnel M. The lower end of the flexible tube is preferably incased in a protecting-shell N, as shown in the drawings, whereby a tighter joint may be made with the tube I. The tube *m* of the receiver or funnel fits within the upper end of the flexible tube, and is provided with an enlargement or rib *m'* near its lower end to insure a tight joint between the receiver-tube

and the flexible tube. A socket O on the lower end of the body of the receiver or funnel formed by the depending flange *o* fits over the upper end of the flexible tube, and thereby compresses it against the tube *m*. The receiver is provided with the extended upper side *o'*, the short underside *o''*, and the vertical lip or hood *o'''* on the said short side to enable the milk to be readily projected thereinto and prevent the same from splashing out.

The operation of the device will be obvious from the above description. The operator sits on the cover C and milks into the receiver or funnel, from whence the milk passes through the flexible tube and the block and into the bucket.

The flexible tube enables the receiver or funnel to be placed in the desired position, and the cow cannot by kicking break the same.

Having thus described the invention, I claim—

1. The combination, with the milk-bucket, of the flexible belt or strap encircling the bucket, and the supporting-legs having keepers *g* affixed to their upper ends and fitting on the belt or strap, substantially as specified.

2. The combination, with the milk-bucket, of the flexible belt encircling the bucket, the stirrups secured at intervals to the belt and provided with keepers through which the belt extends, and the supporting-legs fitting at their upper ends in the stirrups, substantially as specified.

3. The combination, with a milk-bucket, of the removable belt encircling the bucket, the stirrups *G*, provided on their inner sides with keepers *g*, through which the belt extends, and having interior transverse ribs *g'*, and the supporting-legs fitting at their upper ends in the stirrups and provided with transverse grooves which are engaged by the said ribs, substantially as specified.

4. The combination, with the milk-bucket provided at its lower edge with the lateral flange D, and having a rib *d* parallel with and above the flange, of the adjustable belt encircling the bucket between the flange and rib

and bearing at its edges against the same, and the supporting-legs fixed to the said belt, substantially as specified.

5. The combination, with a milk-bucket, of the adjustable belt encircling the same at its bottom, the yoke fixed to one end of the belt to receive the other end, and provided with a set-screw to engage the latter, the movable stirrups arranged on the belt, and the supporting-legs fitting in the stirrups and provided with the inward-extending shoulders extending under the bottom of the bucket, substantially as specified.

6. The combination, with a milk-bucket, of a removable hollow block fitting in the spout of the bucket and having a receiver or funnel connected thereto, substantially as specified.

7. The combination, with a milk-bucket provided with a lip or spout, of the block fitting in the said lip or spout and provided with a bore, the flexible tube fitting at one end in the said bore and provided at its free end with a receiver or funnel, substantially as specified.

8. The combination, with a milk-bucket provided with a lip or spout, of the removable block fitting in the lip or spout and provided with an inclined bore and a short tube I, the flexible tube inclosed at its lower end in a metallic shell fitting in the tube I, and the receiver or funnel connected to the free end of the flexible tube, substantially as specified.

9. The combination, with a milk-bucket provided with a lip or spout, of the block fitting in the lip or spout and provided with a bore, the flexible tube fitting at its lower end in the said bore, and the receiver or funnel provided with a tube fitting in the upper end of the flexible tube and having a rib *m'*, and the socket O, inclosing the upper end of the flexible tube, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN HANNIBAL STEWART.

Witnesses:

JAMES HUGHES HAMLIN,
BURT MILES HITCHCOCK.