W. H. WHITMAN.

Milking Device.

No. 15,629. Patented Aug. 26, 1856.

Fig: 1.

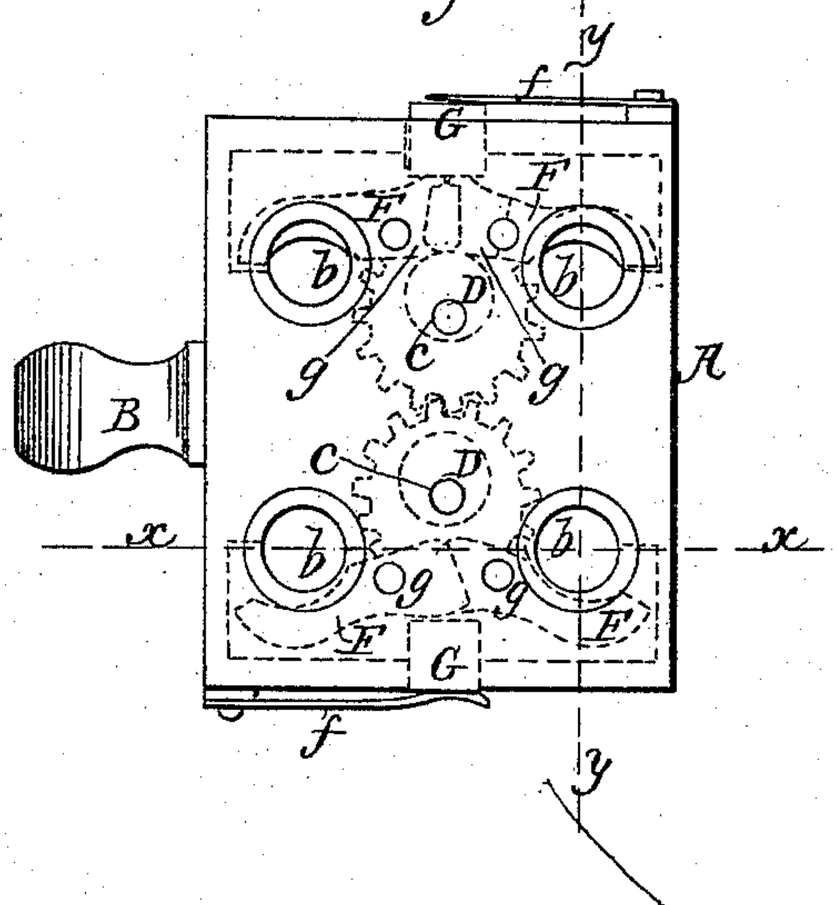


Fig: 2.

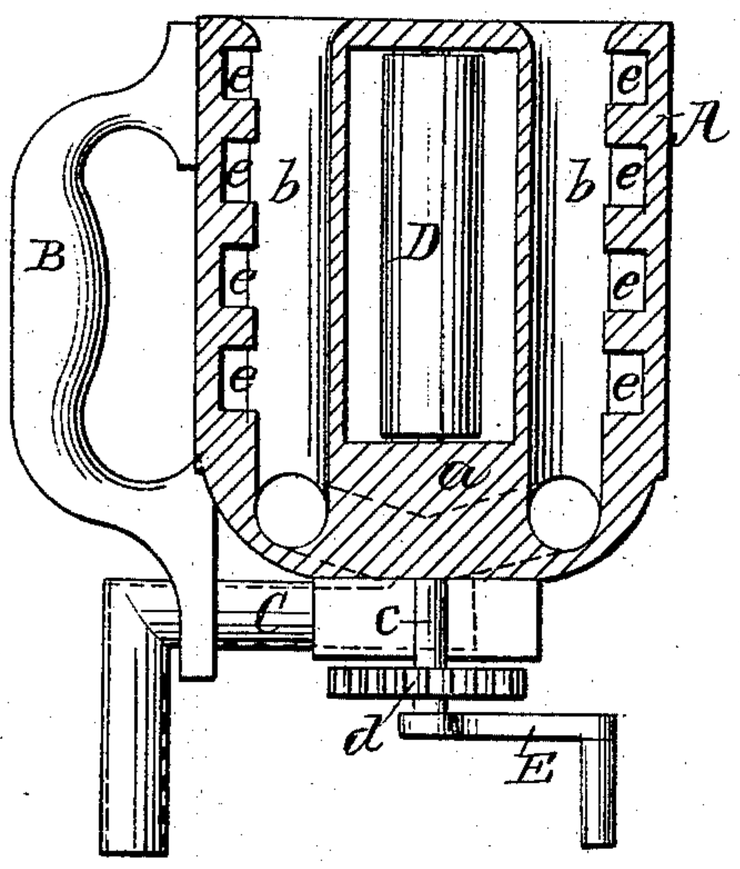
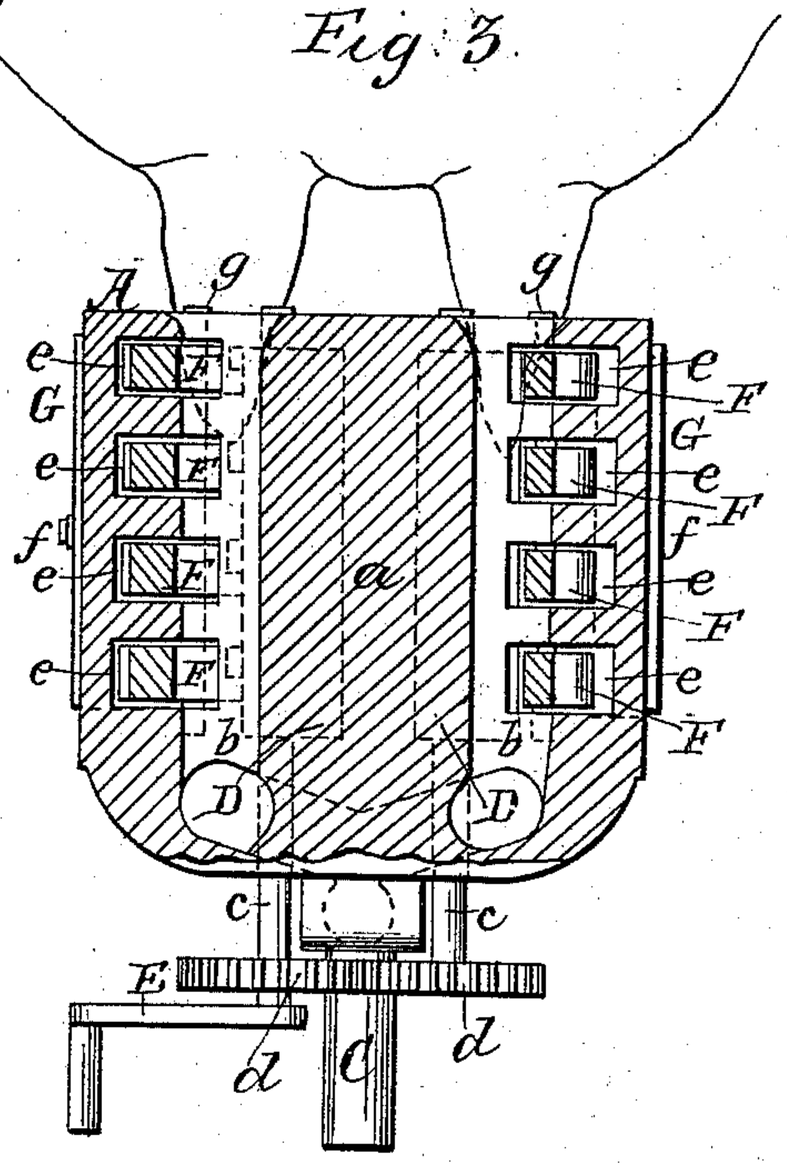


Fig: 3.



N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM H. WHITMAN, OF BAILEY HOLLOW, PENNSYLVANIA.

IMPROVED IMPLEMENT FOR MILKING COWS.

Specification forming part of Letters Patent No. **15,629**, dated August 26, 1856.

To all whom it may concern:

Be it known that I, WILLIAM H. WHITMAN, of Bailey Hollow, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Implement or Device for Milking Cows; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a plan or top view of my improvement. Fig. 2 is a vertical section of the same on line *x x*, Fig. 1, showing the plane of section. Fig. 3 is also a vertical section of the same on line *y y*, Fig. 1, showing the plane of section.

Similar letters of reference indicate corresponding parts in the several figures.

The nature of my invention consists in placing a series of vibrating fingers within a suitable case and arranged, as will be presently shown, whereby said fingers by turning a crank are made to operate properly upon the teats of the cow and draw the milk from the bag.

A represents a rectangular case, which may be constructed of wood.

B is a handle attached to one side of the case. The case is formed of a solid block of wood *a*, having four holes *b* bored vertically through it near each corner, the four holes communicating with a pipe or tube C, which projects from the lower part of the case A.

In the center of the block *a* an opening or recess is made to receive two rollers D D, which are placed eccentrically upon vertical shafts or rods *c c*, which pass through the block *a*. The lower ends of the shafts or rods *c c* have each a toothed wheel *d* upon them, the two wheels gearing into each other, and one of the shafts or rods having a crank E upon it.

F represents horizontal fingers, which are inserted in recesses *e* in the opposite sides of the block *a* and on the outer sides of the holes *b*. There is a series of fingers for each hole *b*, and the inner ends of the fingers of one hole project a short distance over the inner ends of the fingers of the opposite hole at the same side of the block *a*. The outer ends of the fingers are somewhat curved, as shown by the dotted lines in Fig. 1. The outer sides of the inner ends of the fingers F bear against bars G G, which are fitted in recesses in the sides of the case A. These bars are pressed upon the ends of the fingers by springs *f f*, which are attached to the sides of the case A. The inner edges of the inner ends of the fingers bear against the rollers D D. (See dotted lines, Fig. 1.) The fingers F of each hole *b* are placed upon a vertical rod *g*. These rods are secured vertically in the block *a* and the fingers are allowed to turn freely on the rods *g*, which pass through holes in the fingers. The inner sides of the curved portions of fingers may be covered with india-rubber or other suitable elastic material, and the sides of the holes *b* opposite the fingers may also be covered or lined with a similar material.

The operator grasps the handle B of the case A with the left hand and the teats of the cow are placed in the holes *b*. The crank E is then turned with the right hand and a vibrating motion is given the fingers F by means of the eccentric rollers D D and elastic or yielding bars G G, and the teats of the cow are intermittently compressed by the fingers in the holes *b*. The milk is consequently drawn from the bag and passes down the holes *b* into the pipe C and falls into the pail or other receptacle prepared to receive it.

The rollers D D may be made winding or spiral, so that their upper ends will first act upon the upper fingers, thereby causing the upper parts of the teats to be compressed first.

The case and its several parts may be of wood, the pipe C may be of sheet metal, and the fingers F may be of metal. I do not confine myself, however, to any particular material.

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

Placing the fingers F within a case A and at the sides of holes *b* in the case, the fingers being vibrated by means of the eccentric rollers D D and elastic bars G G, the whole being arranged substantially as shown, for the purpose specified.

WM. H. WHITMAN.

Witnesses:

L. R. GREEN,

W. A. CORNER.