JUDSON N. KNAPP.

Improvement in Milking-Stools.

No. 114,153. Patented April 25, 1871.

Fig. 1.

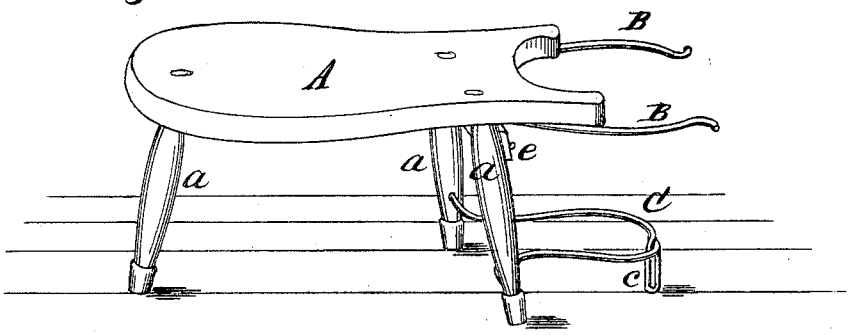
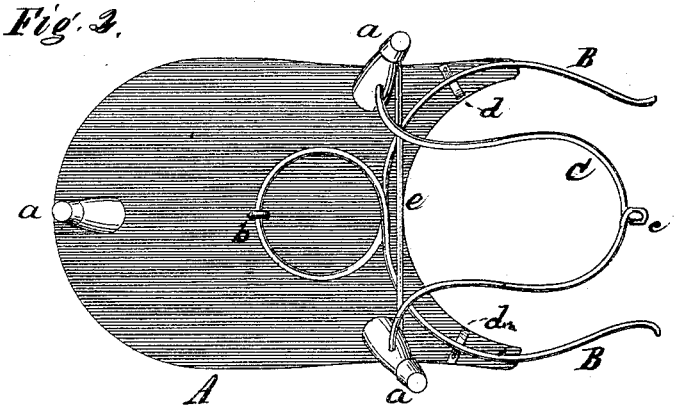


Fig. 2.



Witnesses.

Wm. L. Dodge

F. A. Morley

Inventor.

J. N. Knapp

United States Patent Office.

JUDSON N. KNAPP, OF SYRACUSE, NEW YORK.

Letters Patent No. 114,153, dated April 25, 1871.

IMPROVEMENT IN MILKING-STOOLS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JUDSON N. KNAPP, of Syracuse, in the county of Onondaga and State of New York, have invented a new and useful Improvement in Milking-Stools; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others to make and use the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a perspective side view, and

Figure 2 is a bottom view.

Similar letters of reference indicate like parts.

This invention consists in making the seat at one end with an inward curve, and providing it with a pair of spring arms for embracing and holding the pail securely in the upright position.

Also, in a swinging rest to support the pail out of contact with the ground, the said rest being pivoted or hung to the two front legs in such manner as to swing freely in a vertical direction, to accommodate itself to any unevenness of ground, as hereinafter more fully described.

In the accompanying drawing—

A is the seat, and

a a, the legs.

B B is a pair of arms for embracing the sides of the milk-pail, and

C is the rest for the bottom of the pail.

The arms B B are made by bending a piece of spring metal and fastening the bight of it by a staple, as seen by *b*, fig. 2, and allowing the ends B B to project on each side of the concave curve in the edge of the stool or seat A.

These arms are sprung apart and are held open by small cleats or projections, *d d*, when the pail is to be seated; and when the arms B are released from said cleats the spring of the metal presses them upon the pail with sufficient force to secure it in position.

A bar, *e*, is fastened across on the two front legs, below the arms B, to support them vertically.

The rest C is made by bending a rod of metal into a loop, C, and inserting its ends in holes in the opposite front legs of the stool, the ends fitting loosely in said holes, so that the loop or rest will swing freely.

The rod C is bent with a secondary loop, *c*, to form a leg at its outer part, and by this means the pail always rests on the short leg *c* and the two front legs of the stool, and the pail and contents cannot overbalance the stool when the latter is momentarily released.

The legs *a* of the stool are all inserted with a screw-thread, so as to be removable, by which means the stools can be packed snug and shipped to a greater distance from the factory.

The swinging rest or loop C is readily detached from the legs *a* for packing by springing its ends together.

The legs can be attached to the seat by cast-iron sockets fastened on its under side and the legs driven into them, instead of the screw-thread fastenings before mentioned.

The rest C *c* can be used if the arms B B are dispensed with, and the pail steadied by the knees, as ordinarily.

I do not claim, broadly, a vertically-swinging pail-rest, as such has been used prior to the date of my invention; but

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

1. The pail-rest C, when formed of a single piece of wire bent into the form shown, with the central leg *c*, and having its ends loosely inserted in sockets in the front legs so as to swing freely, as and for the purpose set forth, and as shown.

2. The spring arms B B, detachable legs *a a a*, and swinging rest C *c*, in connection with the seat A, all constructed as described, and for the purpose set forth.

The above specification of my invention signed by me this 29th day of August, 1870.

J. N. KNAPP.

Witnesses:

WM. J. DODGE,

F. A. MORLEY.