G. SMITH.

MILKING STOOL.

No. 109,847. Patented Dec. 6, 1870.

Fig 1

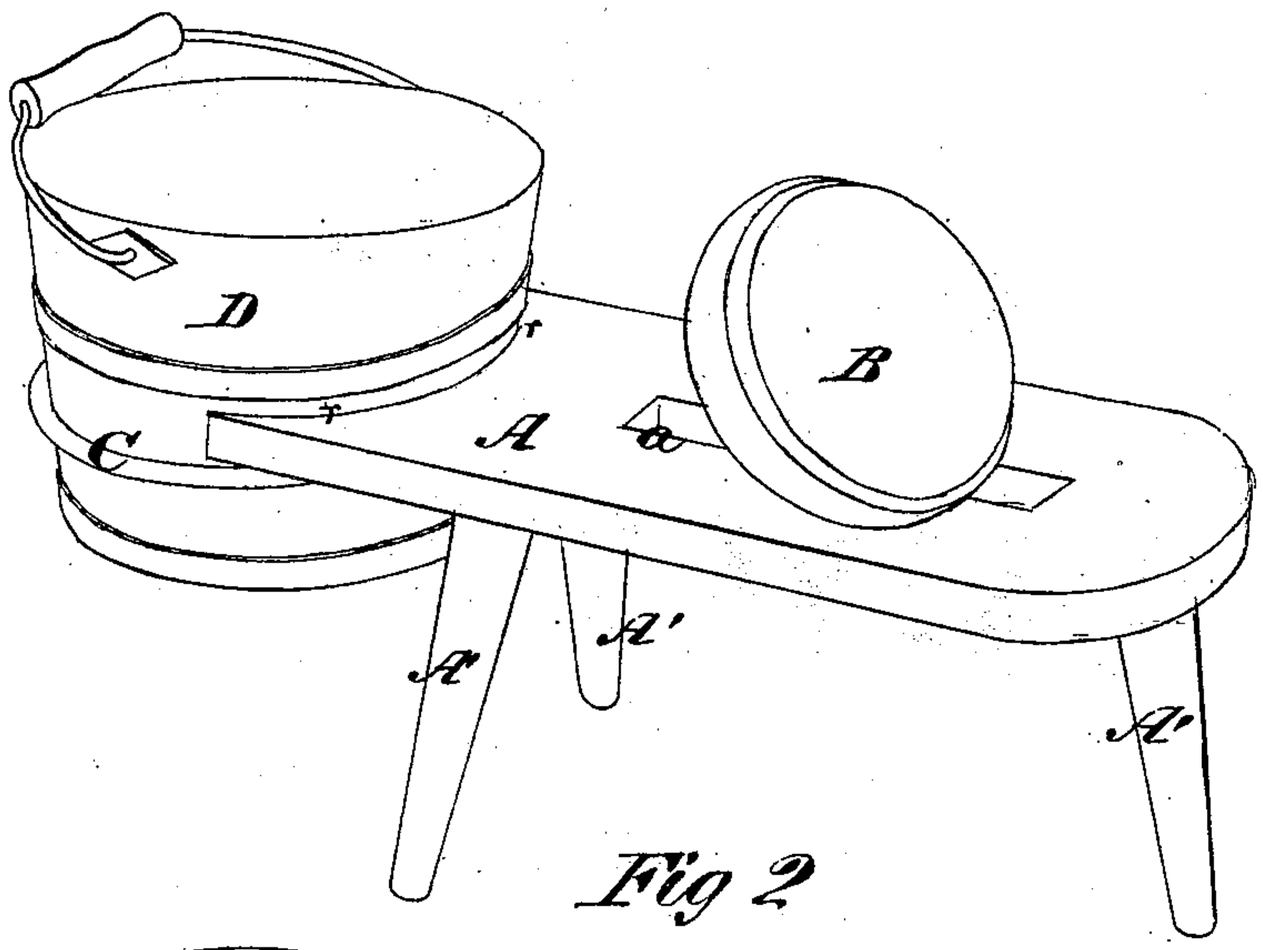


Fig 2

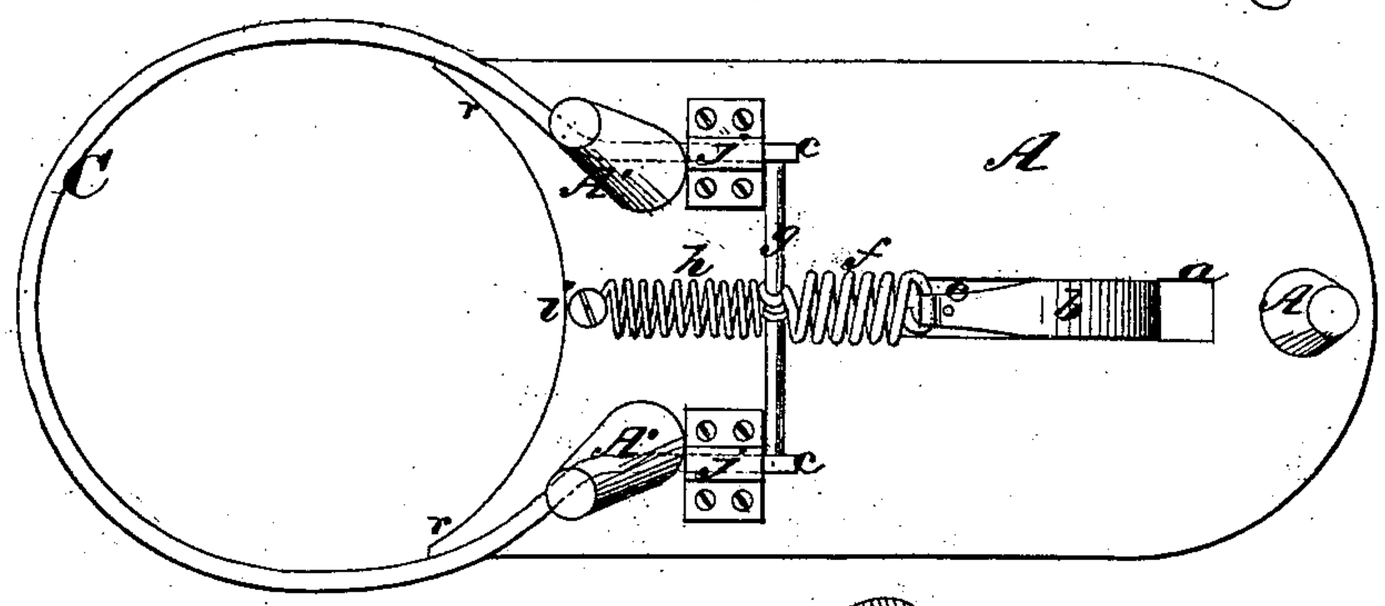
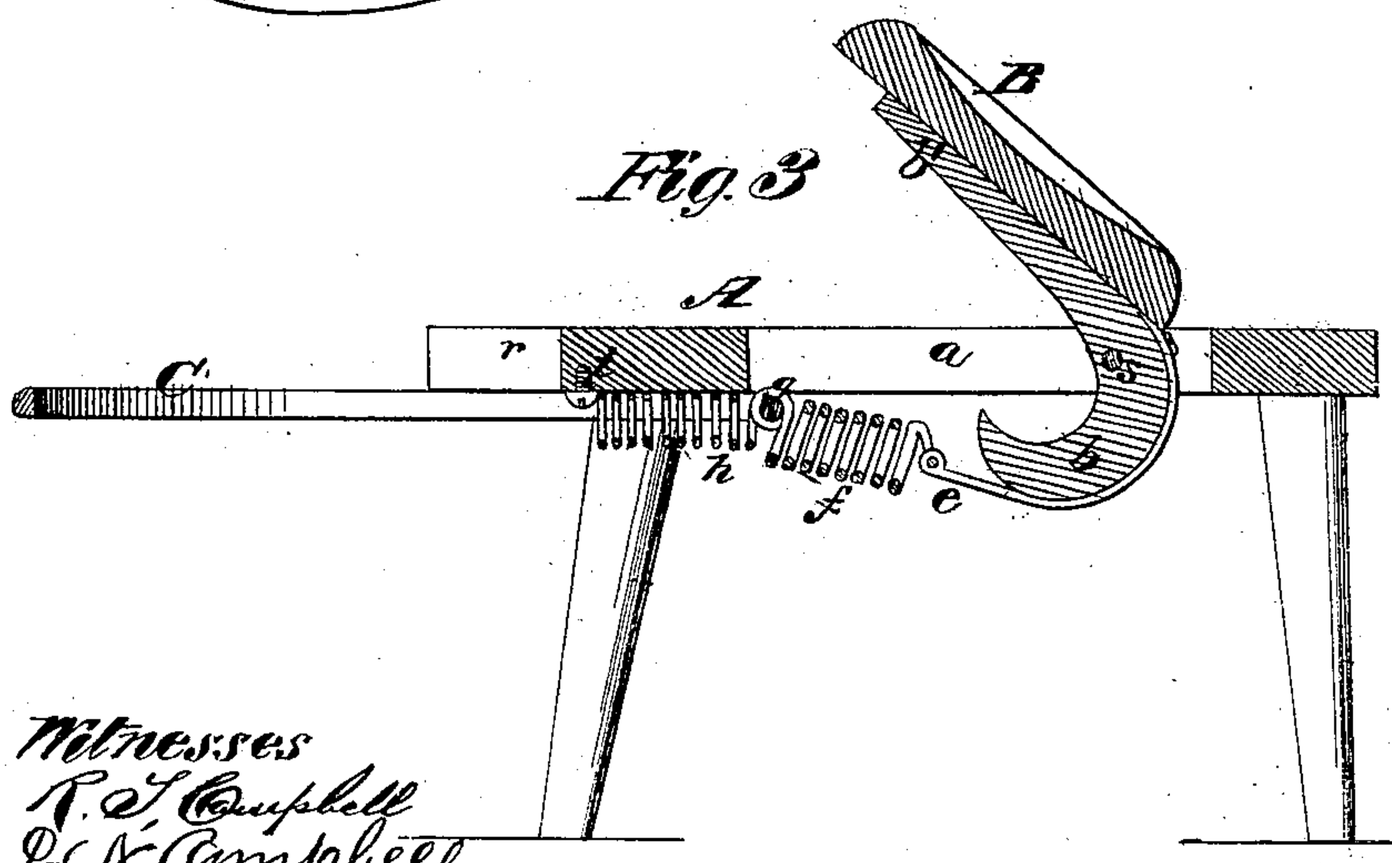


Fig 3



Witnesses
T. L. Campbell
J. S. Campbell

Inventor
George Smith
by his attys
Mason Fenwick & Lawrence

United States Patent Office.

GEORGE SMITH, OF SYRACUSE, NEW YORK.

Letters Patent No. 109,847, dated December 6, 1870.

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, GEORGE SMITH, of Syracuse, in the county of Onondaga and State of New York, have invented an Improved Milking-Stool; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a perspective view, showing a milk-bucket applied to the improved stool in a position to be clamped and held.

Figure 2 is a bottom view of the stool without the bucket.

Figure 3 is a section, taken vertically and longitudinally through the stool.

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

The object of my invention is to combine with a stool an adjustable pail or bucket-holder, in such manner that the latter will be clamped and firmly held by the action of the weight of the milker upon a movable seat and clamp-hoop, as will be hereinafter explained.

To enable others skilled in the art to understand my invention, I will explain its construction and operation.

In the accompanying drawing—

A represents the horizontal top of a stool, which is mounted on legs A′, and which has one end curved out, as shown at *r r*, for receiving against it a bucket, and conforming to the shape thereof.

C represents a clamp-hoop, which extends out beyond the curved end *r* of the stool-top A, and which is intended to clamp the bucket D against said curved end *r*, as shown in fig. 1.

The straight portions *c c* of the clamp C are guided by staples *j j*, and connected together by a cross-bar, *g*. The clamp thus arranged beneath the stool-top will slide longitudinally.

B represents the seat for the milker, which is secured permanently to an extension, *b′*, of a cam, *b*, which cam is pivoted, at *s*, in an oblong slot, *a*.

To the convex surface of the cam *b* a strap, *e*, is securely fastened, which strap is connected to a strong spring, *f*, the front end of which is connected to the cross-bar *g* of the sliding clamp C.

Between this bar *g* and the front end of the stool-top A is a spring, *h*, which is attached to bar *g* at one end and to the stool-top at the other end.

The parts are so adjusted that the seat B will assume about the inclined position shown in figs. 1 and 2 when the milker is not sitting upon it. This is effected by the retraction of spring *h*. This spring is intended to move the clamp C outwardly, and release the bucket when the weight is removed from the seat B to rest firmly down upon the top of the stool, whatever may be the diameter of the pail which is confined within the clamp.

From the above description it will be seen that I provide a stool with a bucket-clamp, and effect the clamping and holding of a bucket by the weight of the milker sitting upon the seat B, acting upon said clamp through the medium of a strong spring, *f*. This spring will yield, and allow the clamp to accommodate itself to buckets of different diameters; at the same time it will allow the vibrating seat B to rest solidly down upon the stool-top. When the milker rises from the seat B the spring *h* causes the latter to rise, as shown in fig. 3, and at the same time causes clamp C to release the bucket.

The seat B, arranged as described, also serves to hold the tail of the animal during milking, which is done by drawing the bushy part of the tail between the seat B and table-top before depressing the seat.

Having described my invention,

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

1. The sliding clamp C, connected to an extension, *b*, which is applied to a vibrating seat, B, substantially as described.

2. The spring *f*, applied between the vibrating seat-extension *b* and the clamp C, substantially as described.

GEORGE SMITH.

Witnesses:

WATERMAN C. BRADLEY,

SAMUEL MYERS.