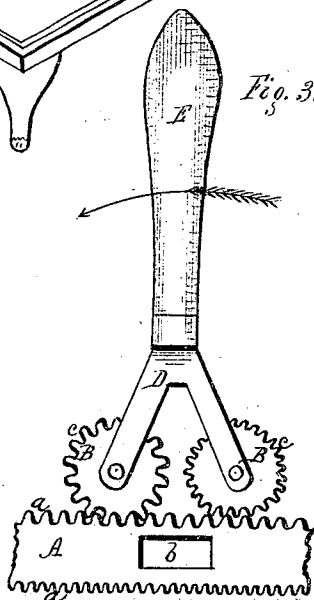
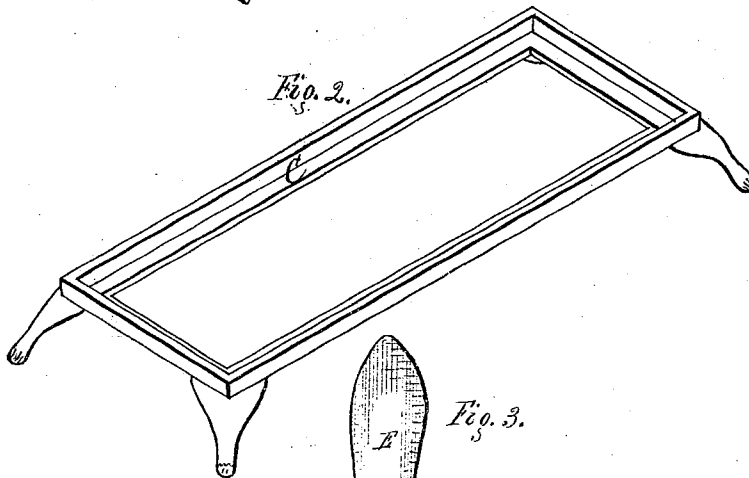
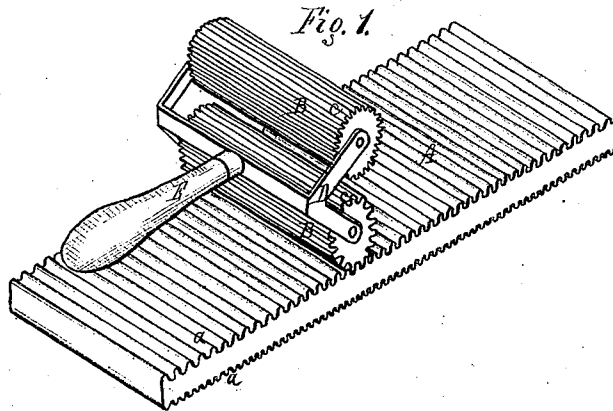


A. Burbank,
Fluting Machine.

No. 110,895.

Patented Jan. 10, 1871.



Witnesses
R. F. Osgood
C. W. Manship

Inventor:
Abner Burbank,
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UNITED STATES PATENT OFFICE.

ABNER BURBANK, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN FLUTING-MACHINES.

Specification forming part of Letters Patent No. 110,895, dated January 10, 1871.

To all whom it may concern:

Be it known that I, ABNER BURBANK, of the city of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Fluting-Machines, of which the following is a specification:

Nature of the Invention.

This invention consists of a slab or bed corrugated on both faces, and having combined therewith a double roller, which fits said corrugations, as hereinafter described.

General Description.

In the drawing, Figure 1 is a perspective view of the slab and rollers; Fig. 2, a similar view of the stand upon which they rest; Fig. 3, an elevation of the slab and rollers, showing the position of said parts while heating and not in use.

A represents the slab or bed, and B B the rollers.

Both faces of the slab are corrugated or fluted, as shown at *a a*, one side being coarser or larger than the other, to do fluting of different degrees of fineness. This slab may be of a convex or concave form on its fluted sides, instead of a plain surface, and may be of any desired length and width. In order to handle it easily, it may have a slot, *b*, in the side or end, for the entrance of a lifter, or it may have a bail, or be arranged in any desired manner to secure convenience. While being heated it lies flat on the stove, as in Fig. 1; but in use it may rest upon a light stand or frame, *C*, which lies upon the table.

The rollers B B have their corrugations or flutes *c c* of a gage to correspond with those of the opposite sides of the slab, one being coarse and the other fine, as shown. They are mounted in a single frame, *D*, having a handle, *E*, by which they are rolled back and forth over the bed in the position shown in Fig. 1.

While being heated both rollers rest on top the bed, so as to get the best effect of the heat, while the handle stands upright, to get the least heat possible; and both the rollers and the slab or bed can readily be heated at once, as shown in Fig. 3.

Corrugated cylinders or rollers meshing together and driven by a crank are already in use. A plain corrugated bed, with a segmental presser, is also in use, such as patented by Charles A. Sterling, August 21, 1866.

I combine in my machine the advantages of both the cylinder and the plain bed, thereby not only cheapening the device, but making it more effective in use.

The cylinders are objectionable for the reason that straight work cannot be done, and the rollers cannot be easily separated for the adjustment and free operation of the cloth.

The segment and bed are objectionable because there is but small scope of action and the operation is not continuous.

By my arrangement the operation is continuous to any desired length, as the roller can be rolled from one end to the other; at the same time the fluting is perfectly plain, and the parts separate by simply lifting off for the adjustment and fitting of the cloth.

Another advantage arises from the mounting of both rollers on one frame and handle, and the employment of the same with the double corrugated surfaces of the slab. By this means two gages of fluting can be done. The second roller also acts as a weight to produce the desired pressure, and in heating, the effect of the rollers is to hold the handle elevated, as in Fig. 3. Were it not for this, some device would have to be employed to hold the handle elevated.

I disclaim both a corrugated slab and corrugated rollers when used separately, as I am aware that such are not new.

Claim.

I claim—

The double corrugated rollers B B, journaled within a frame, *D*, combined and operating in connection with the reversible slab or bed *A*, fluted on both faces, substantially as described, for the purpose set forth.

ABNER BURBANK.

Witnesses:

R. F. OSGOOD,
I. P. BARNES.