(No Model.) 2 Sheets—Sheet 1.

A. H. REID.

BUTTER PRINTER.

No. 493,517 Patented Mar. 14, 1893.

Fig. 1.

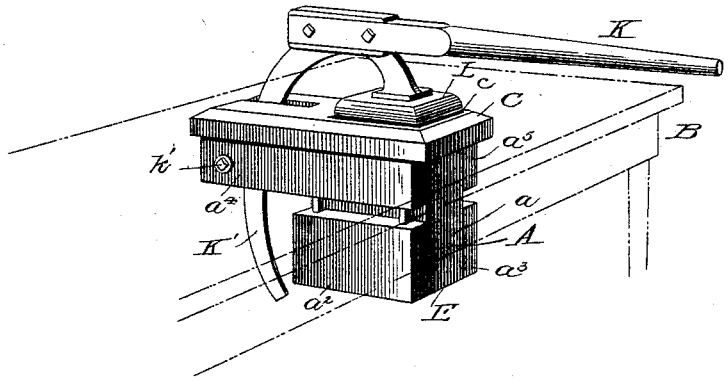
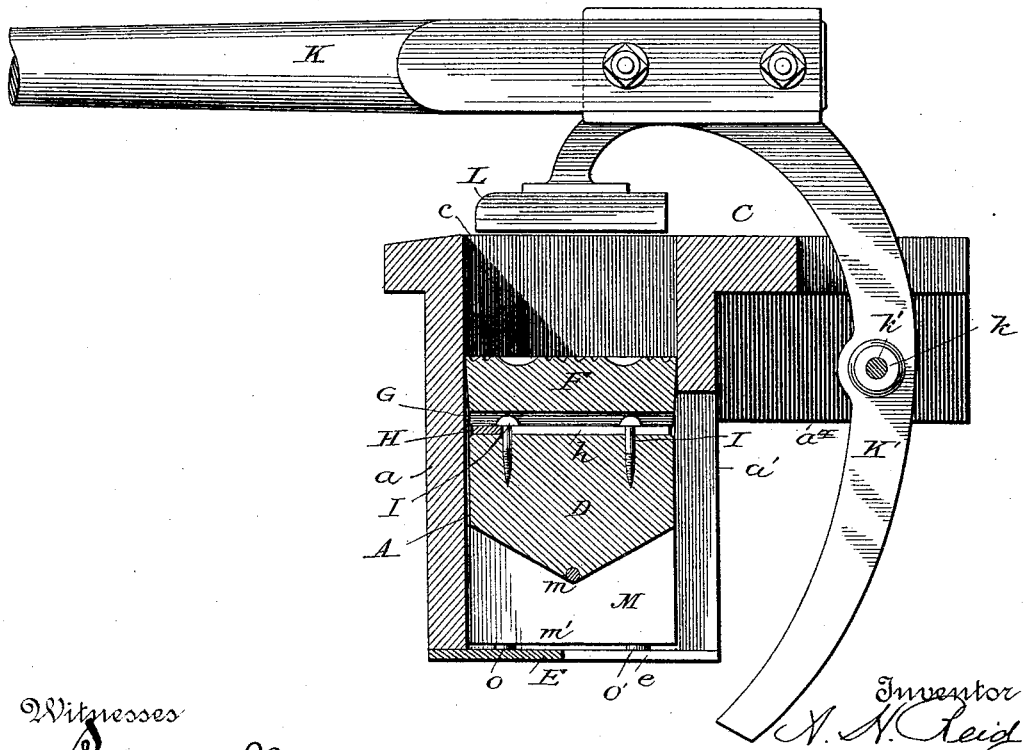


Fig. 2.
on line 2-2.



Witnesses
Raymond P. Barnes.
F. Stanley Clinnie

Inventor
A. H. Reid
By P. T. Dodge
Attorney

(No Model.) 2 Sheets—Sheet 2.

A. H. REID.

BUTTER PRINTER.

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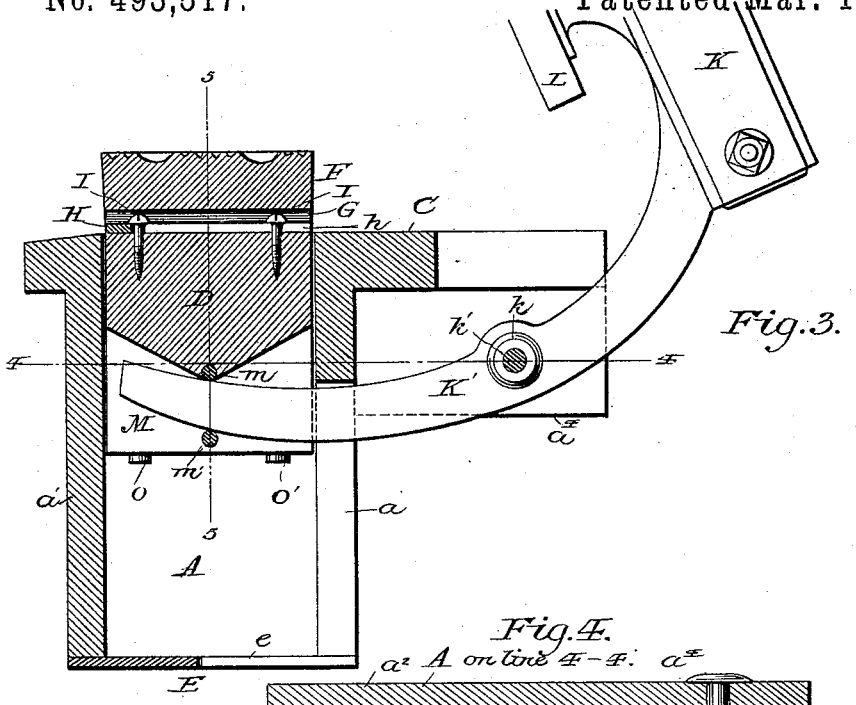


Fig. 3.

Fig. 4.

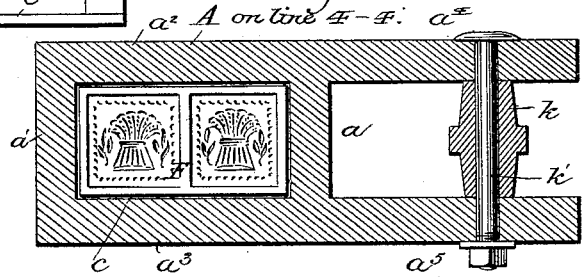


Fig. 6.

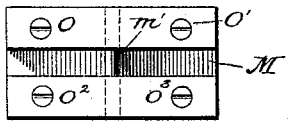


Fig. 7.

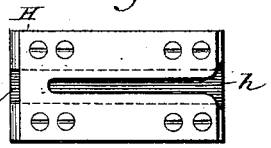
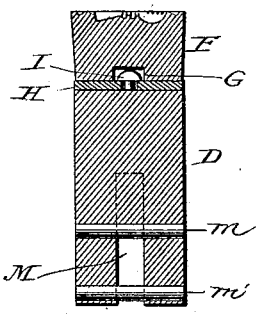


Fig. 5.
on line 5-5.



Witnesses
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Attorney

UNITED STATES PATENT OFFICE.

ALBAN H. REID, OF PHILADELPHIA, PENNSYLVANIA.

BUTTER-PRINTER.

SPECIFICATION forming part of Letters Patent No. 493,517, dated March 14, 1893.

Application filed August 31, 1892. Serial No. 444,654. (No model.)

To all whom it may concern:

Be it known that I, ALBAN H. REID, of Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Butter-Printers, &c., of which the following is a specification.

My invention relates to butter workers and printers embodying a box or receptacle having a movable bottom, a packer and an operating lever, arranged to work and pack the butter in the receptacle and thereafter to elevate the bottom with the print thereon to admit of the removal of the latter.

The invention consists in various improvements and devices of this character, designed to cheapen and simplify the construction, render the operation easy and effective, and to provide for varying the capacity of the receptacle and regulating the size of the print.

The invention also consists in the details of construction and combinations of parts hereinafter described and claimed.

In the accompanying drawings,—Figure 1 is a perspective view of my improved device applied to a table, the latter being indicated by dotted lines. Fig. 2 is a vertical central longitudinal sectional elevation of the same. Fig. 3 is a similar view with the bottom or follower in an elevated position. Fig. 4 is a horizontal section on the line 4—4 of Fig. 3. Fig. 5 is a transverse section through the follower on line 5—5 of Fig. 3. Fig. 6 is a bottom plan view of the follower. Fig. 7 is a bottom plan view of the removable print block.

Referring to the drawings,—A represents a block or receptacle consisting of the end pieces a a', the lower side pieces a^2 a^3, and the upper side pieces a^4 a^5, the said parts being rigidly secured together by means of bolts or other appropriate fastening devices in such manner that a space is left between the upper edges of the lower side pieces and the lower edges of the upper side pieces, which space is adapted to receive the sides of a recess formed in a table B. In this way the receptacle may be secured rigidly in position.

I extend the upper side pieces a^4 and a^5, some distance rearward and secure to the upper edge of the same, a top C, the forward portion of which is provided with a vertical opening c, corresponding in size and form to that of the receptacle, and the rear part with a vertical longitudinal slot. The end piece a' is also provided with a longitudinal slot the purpose of which and that of the slot in the top will hereinafter appear.

Within the receptacle I mount a vertically sliding block or follower D, forming in effect a movable bottom, adapted to support the butter during the formation of the print, and to be elevated to raise the same from the receptacle. The follower is in turn supported normally by a plate E, secured to the bottom of the receptacle, and provided with a longitudinal slot e, the purpose of which will hereinafter appear. The follower carries at its upper end and at its top a removable print block F, having its exposed face ornamented or otherwise formed to leave its imprint on the butter in a well known manner. The follower is elevated by means of a lever K, which is provided at its rear end with a depending curved arm K′, bolted to the lever, as shown. The arm extends within the slot in the top C, and is provided with a perforated hub k, as shown in Fig. 4, which extends between the rear ends of the side pieces a^4 and a^5, and turns therein on a bolt k', extending through the hub and the said side pieces. The upper end of the arm extends forward and downward, where it is provided with a packer block L, and arranged to operate on the butter within the receptacle for the purpose of packing and working the same compactly therein. The extreme lower end of the arm is adapted as the lever is raised, to enter a vertical slot M, formed in the bottom of the follower, and engage therein between two pins m m', extending transversely of the slot. Under this construction and arrangement it will be seen that when the lever is raised the end of the arm will engage the upper pin m, and lift the follower, at the same time passing upward within the slot in the end piece a', and as the lever is depressed the end of the arm will engage the lower pin and positively lower the follower. The relative arrangement of the parts is such that the lever may be raised from a horizontal position to an inclination of approximately forty-five degrees, before its arm will encounter the follower. This I deem of importance in that the

lever may be moved freely to a limited extent, without interfering with the position of the follower. By this means the packer may be operated to pack and work the butter within the receptacle previous to the elevation of the follower to discharge the print.

In order that the capacity of the receptacle may be varied to regulate the size and weight of the print, I provide the follower in its under side with four screws O O′ &c. forming legs which support the follower above the bottom plate E. By screwing these legs more or less into the follower the latter may be sustained at varying heights, and the capacity of the receptacle be thereby varied and regulated as required.

In order that the print block may be removed when desired I form in its under side a longitudinal channel G, and apply to the block a plate H, having a longitudinal slot *h*, therein of a width slightly less than that of the channel. This channel is adapted to receive the heads of lugs I I′, projecting from the upper face of the follower. The slot *h*, being too small to admit of the passage of the heads will in this way hold the print block securely to the follower. By sliding the former endwise they will disengage from the lugs and the block may be removed. The edges of the open slot are rounded, as shown, to facilitate the entrance of the lugs when the print block is to be applied.

In operating my device, the follower being sustained normally by the plate E, the butter is placed in the receptacle, and the lever moved upward and downward kneading and working the butter within the receptacle. When it has been sufficiently packed its upper edge may be smoothed by means of a knife or paddle, and on the elevation of the lever its arm engaging the follower will cause the same to rise, lifting the print until its lower edge is above the top of the receptacle when it may be removed.

It is to be understood that various changes in the details shown, which may suggest themselves to the skilled mechanic, may be made without departing from the limits of my invention.

Having thus described my invention, what I claim is—

1. In a butter printing apparatus the combination of the receptacle, the follower therein, provided with a transverse opening in its base, the operating lever adapted to enter the opening in the follower and to positively raise and lower the latter, and the packer block rigidly attached to the lever, the lever having a limited play independently of the follower.

2. In a butter printer, the combination of the receptacle, the follower therein provided with the vertical slot and transverse pins, and the operating lever having its end arranged to engage between the pins on the elevation of the same.

3. In a butter printing apparatus the combination of the receptacle having a bottom E. the follower movable vertically in said receptacle, a pivoted lever for operating the follower, a packer block connected with the lever and an adjustable support between the bottom and the follower; whereby the latter may be supported in different vertical positions.

4. In a butter printer, the combination of the receptacle, the vertically-movable follower therein the lever for operating the follower, the presser-block carried by the lever, the plate applied to the under side of the receptacle, and the adjusting screws projecting from the under side of the follower in position to be sustained by the plate.

5. The combination of the receptacle, the movable slotted follower therein, the transverse pins in the follower, the operating lever, the curved arm carried thereby with its rear end in position to enter the slot in the follower and engage between the pins, and the print block at the forward end of the arm and capable of a limited vertical movement independent of the movement of the follower.

In testimony whereof I hereunto set my hand, this 6th day of June, 1892, in the presence of two attesting witnesses.

ALBAN H. REID.

Witnesses:
W. E. ANDERSON,
NEIL MCGLADE.