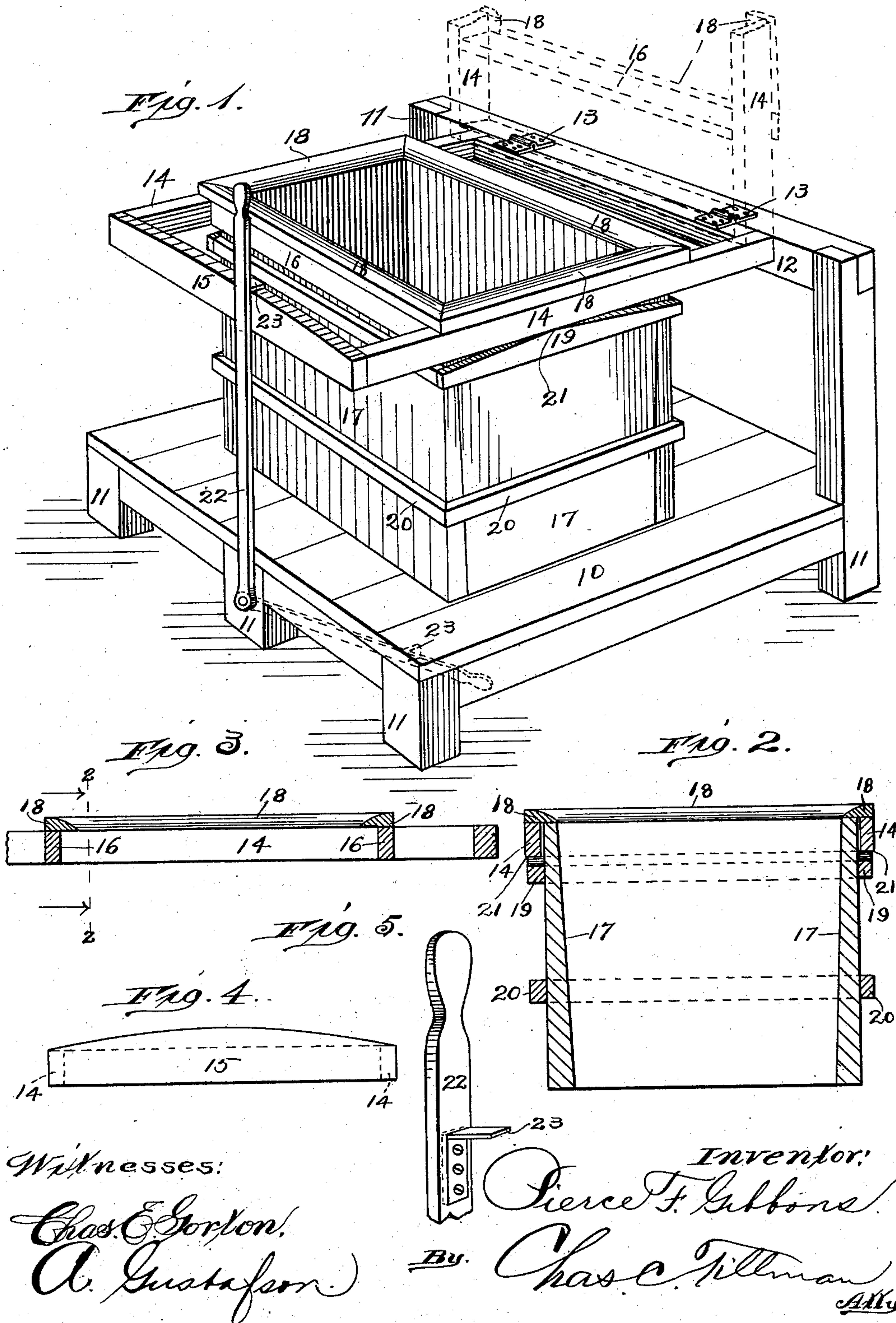


No. 743,485.

PATENTED NOV. 10, 1903.

P. F. GIBBONS.
BUTTER PACKING MACHINE.
APPLICATION FILED APR. 7, 1903.

NO MODEL.



UNITED STATES PATENT OFFICE.

PIERCE F. GIBBONS, OF CHICAGO, ILLINOIS.

BUTTER-PACKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 743,485, dated November 10, 1903.

Application filed April 7, 1903. Serial No. 151,446. (No model.)

To all whom it may concern:

Be it known that I, PIERCE F. GIBBONS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Butter-Packing Machines, of which the following is a specification.

This invention relates to improvements in an apparatus to be used for packing butter in boxes or packages, and thus to be placed in cold storage, from whence it is removed; and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The principal object of my invention is to provide a machine for packing butter which shall be simple and inexpensive in construction, strong, durable, and effective in operation, and so made as to securely hold the box or package in which the butter is packed in such a manner as to prevent it escaping between the lower end of the box and the platform on which the same rests.

A further object of the invention is to provide a box or receptacle which shall be so constructed that the butter may be easily removed therefrom in a solid mass or cake.

A further object of the invention is to protect the upper end of the boxes or packages against the blows of the pestle or maul used in packing the butter.

Other objects and advantages of the invention will be disclosed in the subjoined description and explanation.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of a butter-packing machine embodying my invention, showing by continuous lines the parts in position ready for use and illustrating by dotted lines the raised position of the box-holder. Fig. 2 is a transverse vertical sectional view through the box and a portion of the box-holder, the latter being taken on line 2 2 of Fig. 3 of the drawings. Fig. 3 is a detached view, partly in section and partly in elevation, of a portion of the box-holder. Fig. 4

is a detail view in elevation of the front part of the box-holder, and Fig. 5 is a perspective view of the upper portion of the securing-lever.

Like numerals of reference refer to corresponding parts throughout the different views of the drawings.

The reference-numeral 10 represents the base or platform, which is usually supported by means of legs or standards 11 at a suitable distance above the floor or ground. The rear standards 11 extend upwardly at a suitable distance above the base and are united at their upper ends by means of a cross-piece 12, to which the box-holder or box-holding frame is pivotally secured, usually by means of hinges 13 of the ordinary kind. This box-holder comprises a rectangular frame 14, which has at its front end a transverse bar 15, curved upwardly on its upper surface, as is clearly shown in Figs. 1 and 4 of the drawings. Extending across the frame 14, near its front and rear ends and secured to the inner surfaces of the sides of said frame, are pieces or bars 16, which are located far enough apart to receive the upper end of the box 17 therebetween. The upper edges of the bars or pieces 16, as well as the upper portions of the frame 14 between said pieces, have secured thereon strips 18, which extend inwardly and have their upper surfaces inwardly beveled. The box 17 is rectangular in form and flaring toward its upper end and has both of its ends open, as is clearly shown in Fig. 2 of the drawings. The upper end of the box 17 is of proper size to fit snugly at its upper perimeter within the frame formed by the pieces 14 and 16, yet will rest under the inwardly-extending portions of the strips 18, which serve to protect the upper end of the box against the blows of the pestle or maul used for packing the butter in the receptacle, besides serving to assist in pressing the box or receptacle down on the base. To strengthen the box, it is provided on its outer surface, near its upper and lower ends, with horizontal cleats 19 and 20, respectively. Each of the cleats 19 on the sides of the box is formed with an upwardly-extending angular enlargement 21, on which the side rails of the frame 14 will rest, thus forming a fulcrum-point for said rails. Pivotally secured at its lower end

to one of the standards 11 of the base is a securing-lever 22, which carries on its inner surface, near its upper end, a bracket or extension 23 to rest on the upper or curved surface 5 of the bar 15 on the front of the box-holder.

By placing the box 17 with its contracted end on the base or platform 10 in the proper position for its upper end to register with the frame composed of the pieces 14 and 16 it is 10 apparent that the side rails of the frame 14 will rest on the apex 21 of each of the cleats 19, when by forcing the bar 15 downwardly, which can be done by turning the lever 22 so that its projection 23 will contact with the 15 curved surface of the bar 15, it (the box) will be securely held in place and in such a manner that the butter will not be forced out between the bottom of the box and the platform. It is further evident that after the butter has 20 been packed in the box until it is filled the box-holder may be turned to the position shown by dotted lines in Fig. 1 of the drawings, when the filled box may be placed in cold storage and another one supplied to be 25 filled. After the filled boxes have remained in cold storage for a time the mass of butter will shrink to some extent, when by turning the flaring upper end of the box downward the cake of butter will easily slide therefrom, 30 after which it may be divided into cakes by means of any suitable cutter.

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

35 1. In a butter-packing machine, the combination with the base, of a box-holding frame movably supported at a distance above the

base, a box located on the base so as to register at its upper end with said frame, and a 40 lever suitably fulcrumed and carrying an inwardly-extending projection to engage the front portion of the frame, substantially as described.

2. In a butter-packing machine, the combination with the base, of a box-holding frame 45 hinged to a suitable support at a distance above the base, a box located on the base and provided near the upper end of each of its sides with a horizontal cleat having its central portion extending upwardly to contact with the 50 sides of the said frame, and a lever carrying an inward projection to engage the front part of the frame, substantially as described.

3. The combination with the base, of a box-holding frame movably supported at one of 55 its ends above the base and having at its other end a bar upwardly curved on its upper surface, said frame also comprising cross-pieces located between its ends and inwardly-projecting strips secured to the tops of said 60 cross-pieces and the side rails of the frame, a flaring box open at its ends and located on the base so that its upper end will register with said frame, a horizontal cleat located on each 65 side of the box near its top and provided with an upward extension, and a lever fulcrumed below the said frame and having a projection to engage the curved bar, substantially as described.

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Witnesses:

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A. GUSTAFSON.