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Patented Jan. 14, 1896.

Fig. 1.

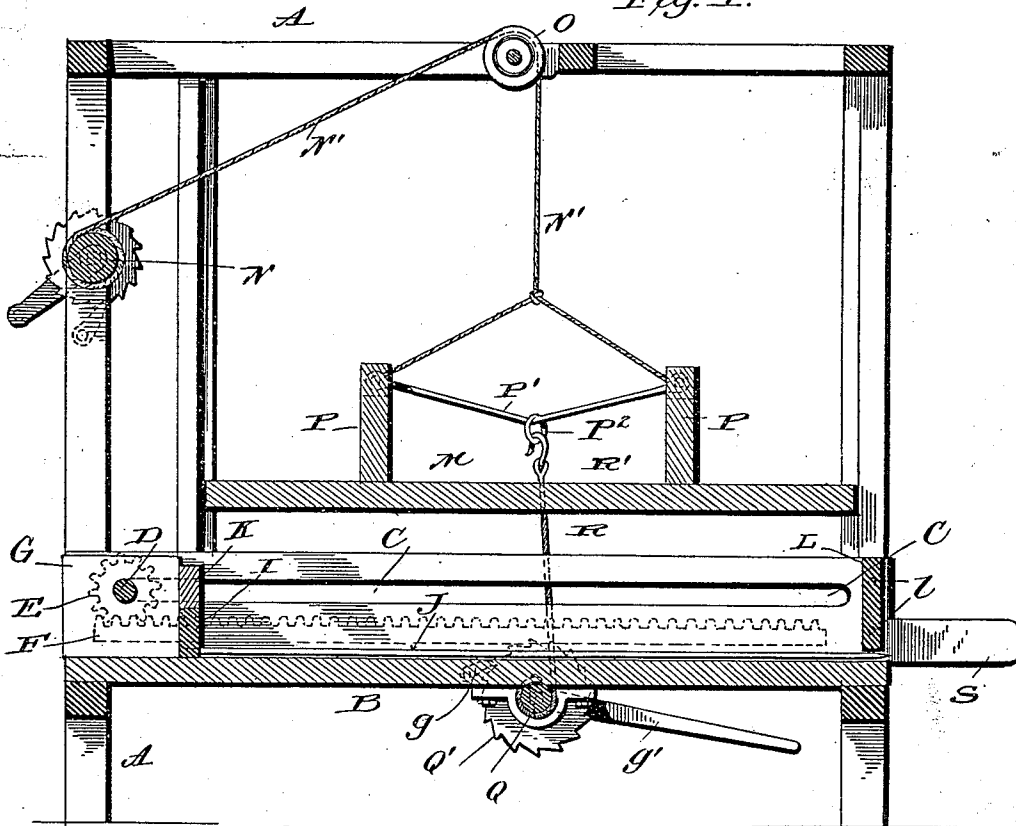
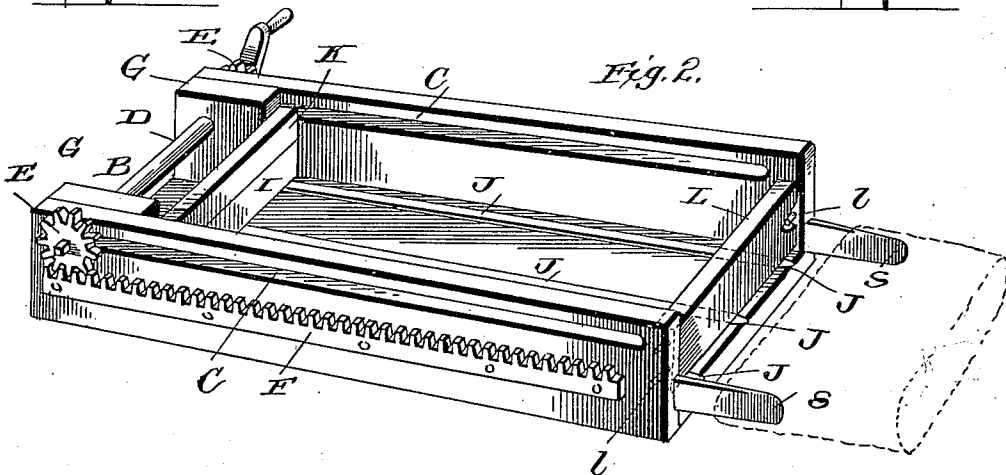


Fig. 2.



Witnesses:

L. C. Hills.
A. D. Dough

Inventor:

Frances M. Bates,
by Franklin A. Hong
Atty.

MATTRESS MAKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 552,883, dated January 14, 1896.

Application filed June 25, 1895. Serial No. 554,019. (No model.)

To all whom it may concern:

Be it known that I, FRANCES MARIAN BATES, a citizen of the United States, residing at Tolar, in the county of Hood and State of Texas, have invented certain new and useful Improvements in Mattress-Making Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in mattress-presses, and especially to a new and improved mechanism for first pressing the material and then forcing the same into a mattress, which is suitably held at one end of the machine, guide-strips being provided to hold the material forming the filling for the mattress straight and smooth while being forced into the tick.

To these ends and to such others as the invention may pertain the same consists further in the novel construction, combination and adaptation of the parts, as will be hereinafter more fully described, and then specifically defined in the appended claim.

I clearly illustrate my invention in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which drawings similar letters of reference indicate like parts throughout both views, in which—

Figure 1 is a vertical longitudinal section of a machine embodying my invention. Fig. 2 is a perspective view of the press-box alone.

Reference now being had to the details of the drawings by letter, A designates the framework supporting the press-box B, the side walls of which box are provided with the longitudinal slots C near the top edges of said sides.

D is a shaft having pinion-wheels E on each end, and F F are rack-bars, one secured on each side of the box and parallel with the said slots, on which rack-bars the said pinion-wheels are designed to travel. Mounted on the shaft D are the blocks G loosely journaled thereon, and the said blocks are connected by the plunger-bar I, which is secured to the lower

portions of the blocks, and J J are guides consisting of elongated strips of metal or other material having sharpened points, and are adapted to reciprocate backward and forward with the plunger-block when in operation. Three of these guides are here shown, and all of them extend from the plunger-block, to which they are secured at their inner ends, slightly beyond the board L, and their object is to keep the material moving in a straight line, while being forced into the ticking, and thus prevent the material from moving laterally, becoming tangled, and forming hard knots, as it will do if means are not used to prevent it. If the material is placed in a box in straight layers, these rods J will prevent them from mixing up and forming hard knots.

K is a removable block designed to rest on the block or plunger-bar I while the material which is to fill the mattress is being pressed, and L is a removable board having pins l, which are adapted to hold said board in place at the opposite end of the box during the pressing process.

Suspended from the top of the framework of the device is the platform M, having connection with a winding-drum N by means of the cable N', which passes over a pulley O, and having connection with the ends of the cleats P. P' are rods connecting the ends of said cleats, and P² are rings loosely hung on said rods.

Q is a shaft journaled to the under side of the support for the press-box, and Q' a ratchet-wheel mounted thereon, and q is a dog and q' a lever for winding said shaft. To each end of the shaft Q is secured a band R, which bands are provided at their upper ends with hooks R' for catching the rings P² on the rods P'. By this mechanism the material which is to fill the mattress is pressed before it is forced into the tick.

The mattress to be filled is hung on the projecting portions S of the press-box.

The operation of the machine is as follows: The material which is to be forced into the mattress is first placed in the box, the removable boards at each end being in place upon the box and then pressed by turning the shaft Q, on which winds the bands R connected to the rods on the platform. After the material has been sufficiently pressed, the forward end

board is removed, and by placing a crank on one end of the shaft D the plunger-block I may be forced forward and the material forced into the mattress, the guides serving to keep
5 the material from clogging up and keeping it straight and smooth.

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

10 In a machine for making mattresses, the press box, a cover therefor, and the plunger

block and means for operating the plunger block, combined with the rods J, secured to the block and extending longitudinally through the box, substantially as shown.

In testimony whereof I affix my signature
15 in presence of two witnesses.

FRANCES MARIAN BATES.

Witnesses:

A. J. FLETCHER,
J. E. KERR.