D. HAYNES.

BAT MAKING MACHINE.

APPLICATION FILED NOV. 20, 1908.

930,285.

Patented Aug. 3, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

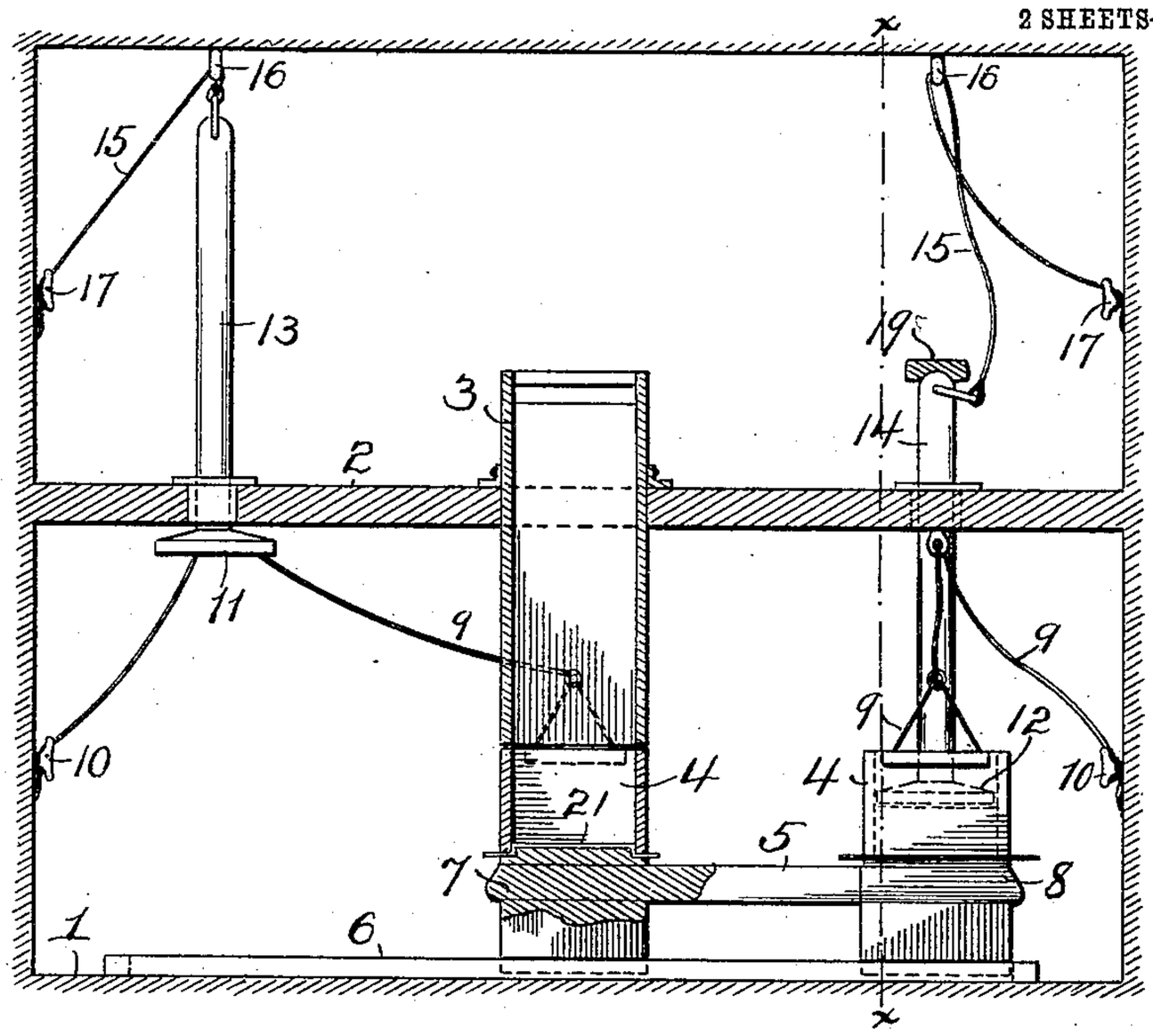
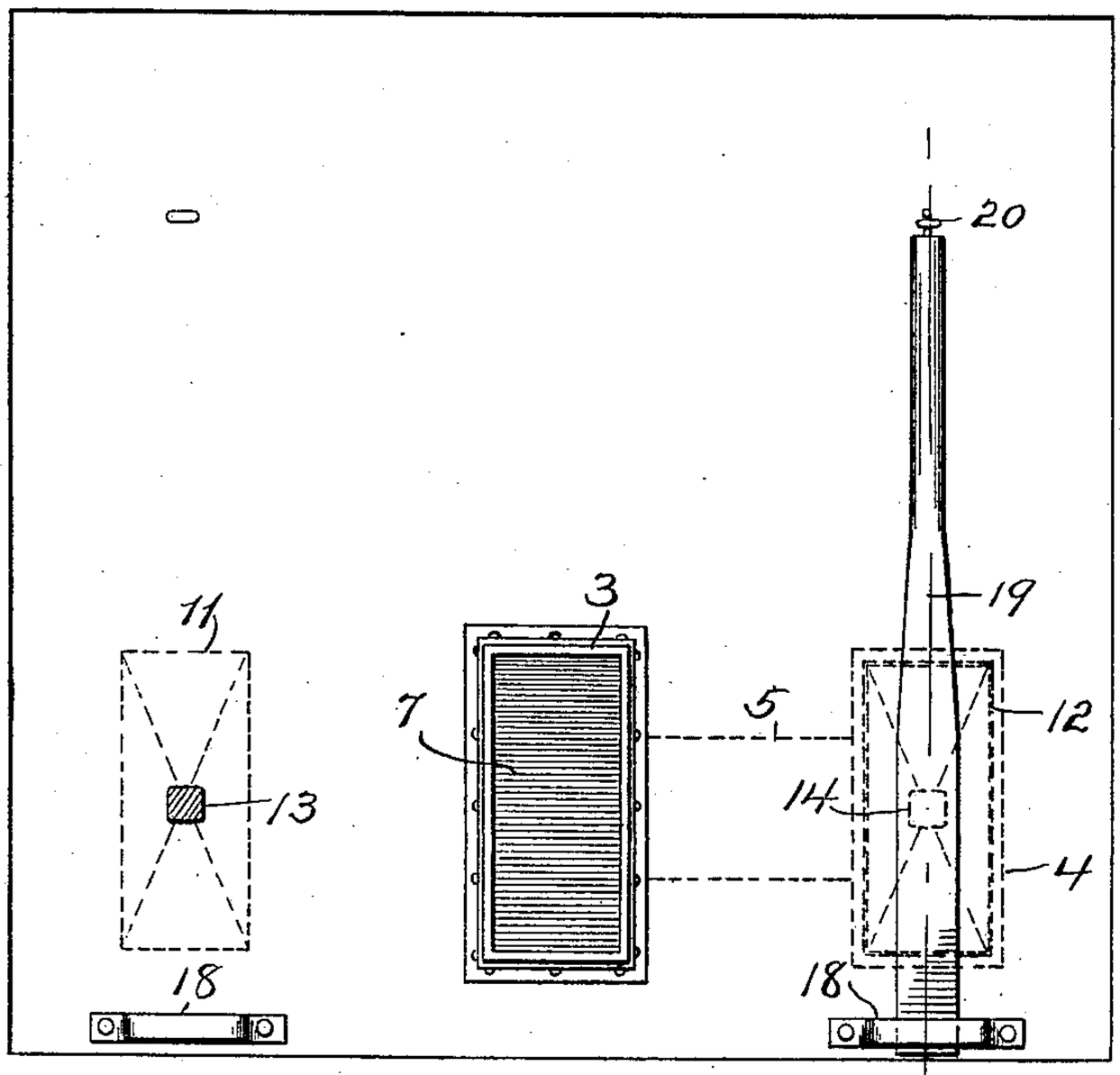


Fig. 2.



WITNESSES

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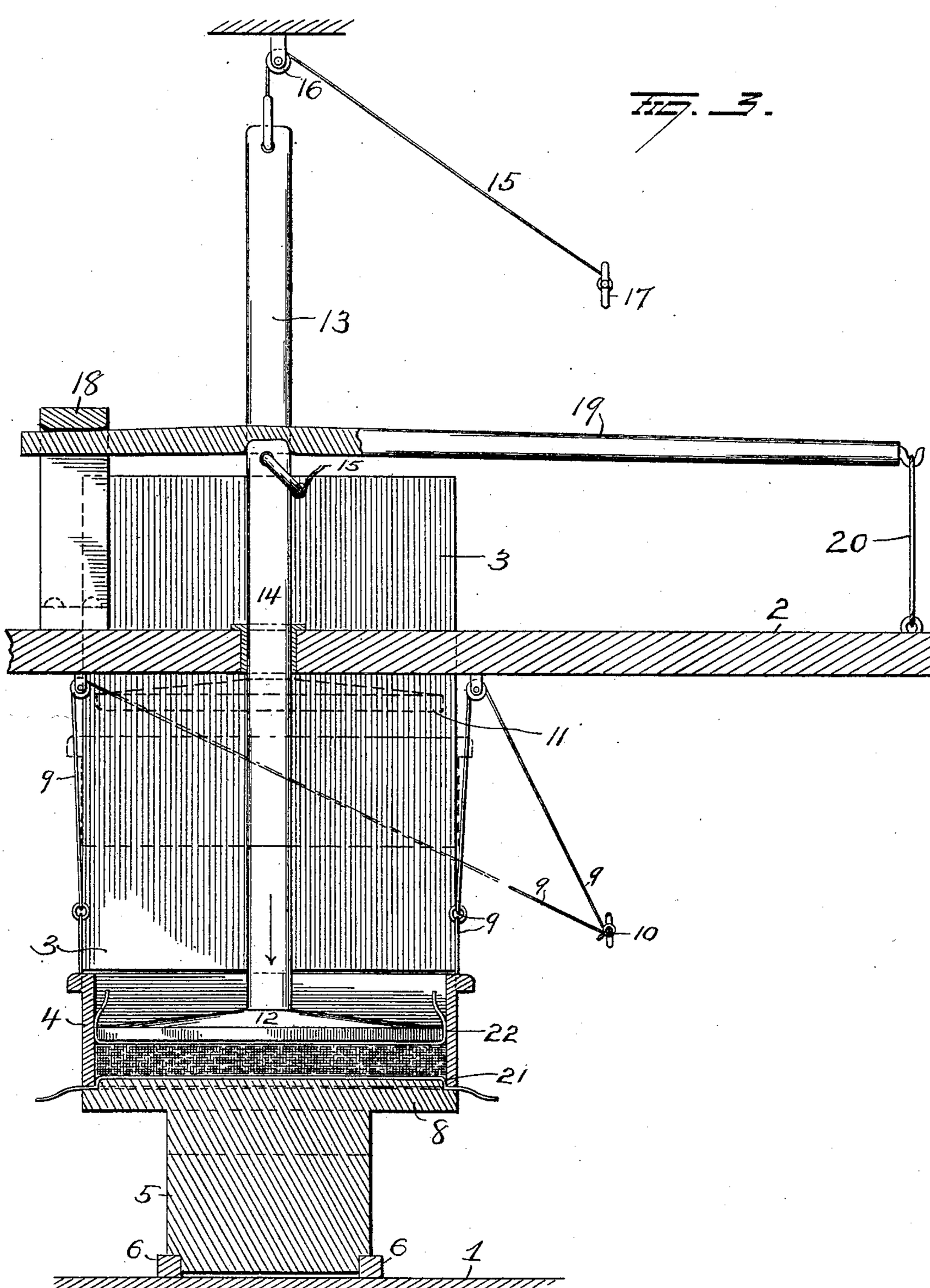
FIG. 3.



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UNITED STATES PATENT OFFICE.

DANIEL HAYNES, OF SEALY, TEXAS.

BAT-MAKING MACHINE.

No. 930,285. Specification of Letters Patent. Patented Aug. 3, 1909.

Application filed November 20, 1908. Serial No. 463,680.

To all whom it may concern:

Be it known that I, DANIEL HAYNES, of Sealy, in the county of Austin and State of Texas, have invented certain new and useful Improvements in Bat-Making Machines; and I do hereby 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.

This invention relates to improvements in bat making machines, the object of the invention being to provide means to facilitate the manufacture of bats from cotton lint.

A further object is to construct the mechanism in such manner that cotton lint can be readily placed in position to form a bat and the edges of the material which constitutes the envelop easily and quickly fastened, either by stitching or by means of adhesive material.

With these objects in view the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings, Figure 1 is an elevation showing an application of my improvement. Fig. 2 is a plan view, and Fig. 3 is a sectional view on the line *x*—*x* of Fig. 1.

1 represents a platform which may be a lower floor of a building and 2 represents an elevated platform which may be an upper floor of the same building.

A flue or chute 3 passes through the platform 2 and with the upper end of this flue or chute a suitable flue (not shown) from a cotton gin communicates. The flue or chute 3 preferably has a cross-section the shape of a bat to be formed and at its lower end is intended to discharge into a box 4 in which the bat is to be formed.

A carriage 5 is mounted on suitable trackways 6 located on the lower platform 1 and carries two bat supports 7—8 and upon these supports the bat forming boxes 4 may be located. In the drawings I have shown two bat-forming boxes 4, to each of which ropes 9 are attached and these ropes pass over suitable guides located under the upper platform 2; the free ends of said ropes being secured by means of cleats 10. These ropes afford means for raising and lowering the bat-forming boxes. Two plungers 11—12 are also provided and the rods 13—14 of these plungers pass loosely through suitable openings in the platform 2. To each plunger rod a rope 15 is attached and after passing over a guide 16 located some distance above the platform 2, may be secured to a cleat 17. In rear of each plunger rod, a bracket 18 is secured upon the platform 2 and the cross-bar of each bracket is intended to receive and constitute a fulcrum for a lever 19. The lever 19 is adapted to engage the upper end of the plunger rod so that when the free end of said lever is depressed the plunger will be forced downwardly to compress a bat and holding it securely upon one of the bat supports and the lever may be held thus depressed by means of a short rope 20 or similar flexible device secured at one end to the platform 2 and detachably secured at its other end to the free end of the lever.

The envelop which incloses the cotton lint may be made of cheese cloth or of papers.

In operating the machine a sheet of cheese cloth or paper is placed upon one of the bat supports, as indicated at 21, and a bat forming box is then placed in position on said support. The carriage will then be moved so that this bat support and box will become disposed under the lower end of the flue or chute 3 so as to receive lint cotton from the latter. When sufficient cotton shall have been deposited into the bat forming box the carriage will be moved laterally from the flue or chute until the box containing the cotton shall become disposed under one of the plungers 11 or 12. The bat-forming box may now be raised by means of the ropes 9 and another sheet of cheese cloth or paper 22 placed upon the cotton, or if desired the upper sheet of the envelop may be placed in position upon the cotton before removing the bat forming box. The partially completed bat is now in position to receive a plunger and the latter will be lowered and pressed downwardly by means of the lever 19 so as to hold the lint cotton and the sheets of cheese cloth or paper firmly in place. The edges of the sheets composing the envelop and which project beyond the edges of the plunger may now be fastened by stitching or by the use of suitable adhesive material. While this operation is being performed the other bat support and bat forming box on the carriage will be in position under the flue or chute 3 to receive material for the formation of another bat.

Various slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope and hence I do not wish to restrict myself to the precise details herein set forth.

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

1. Bat forming means comprising a movable bat support, a movable bat forming box, an independent chute for feeding lint cotton to said support and box, and means for compressing the lint cotton.

2. Bat forming means comprising a movable bat support, a movable bat forming box removable from said support, and means for feeding lint cotton to said support and box.

3. Bat forming means comprising a movable bat support, a bat forming box movable with and removable from said support, means for feeding lint cotton to said support and box, and means for holding the bat while the edges thereof are being fastened.

4. Bat forming means comprising a carriage, bat supports thereon, removable bat forming boxes mounted on said supports, means for feeding lint cotton to said supports and boxes, plungers for compressing the bats, and means for operating said plungers.

5. Bat forming means comprising a chute or flue, a carriage, a series of bat supports on the carriage and movable thereby to position under the chute or flue, plungers located at respective sides of the chute or flue and adapted to compress a bat while the edges thereof are being fastened, a lever engaging the rod of said plunger, and means for securing said lever.

6. Bat forming means comprising a carriage, a bat support thereon, a bat forming box, means for raising and lowering said bat forming box, a chute or flue to feed lint cotton to said box and support, a plunger to engage a bat on said support, a rod projecting from said plunger, means for raising and lowering the plunger, and a lever to engage said plunger rod to compress the bat under the plunger.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

DANIEL HAYNES.

Witnesses:
S. L. Stone,
Otto Schroeder.