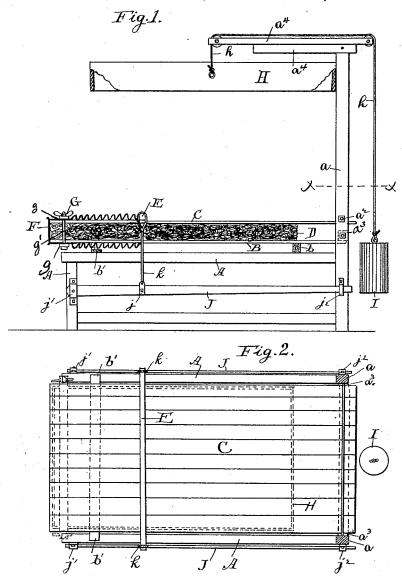
W. H. MOORE.

APPARATUS FOR FILLING MATTRESSES.

No. 489,540.

Patented Jan. 10, 1893.



Witnesses: H. J. Hamaford. E. Sudey France.

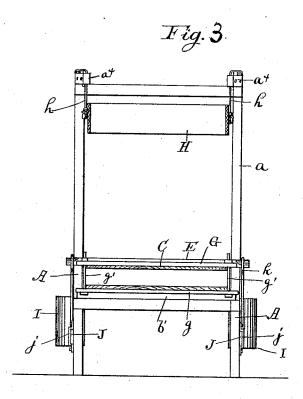
Inventor: William H. Moore by S. M. Bates wo atty.

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Oflew J. Smith

Inventor: William H. Moore. by S. M. Bates history.

UNITED STATES PATENT OFFICE.

WILLIAM H. MOORE, OF GARDINER, MAINE, ASSIGNOR TO THE W. H. MOORE MATTRESS COMPANY, OF SAME PLACE.

APPARATUS FOR FILLING MATTRESSES.

SPECIFICATION forming part of Letters Patent No. 489,540, dated January 10, 1893.

Application filed June 27, 1891. Serial No. 397,727. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. MOORE, a citizen of the United States, residing at Gardiner, in the county of Kennebec and State of 5 Maine, have invented certain new and useful Improvements in Apparatus for Filling Mattresses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled 10 in the art to which it appertains to make and use the same.

My invention relates to an apparatus for filling mattresses of that class wherein the filling material is distributed evenly over a 15 bed piece the tick being subsequently drawn

on over the filling material.

The operation of my apparatus for making mattresses as hereinafter fully set out and as I prefer to use it consists of distributing the 20 material evenly over a bottom plate the size of the mattress, using for this purpose a frame placed on the bottom plate, the sides of the frame confining the material within its proper limits, removing the frame and compressing 25 the material by means of a top plate held down by a cross bar at its back end and pressed downward by a binder bearing at a point intermediate between the ends, slipping over the ends of the plates the tick, the closed 30 end of which is brought into place, clamping the ends of the two plates together outside of the tick, removing the binder, drawing the tick entirely on, removing the clamp and withdrawing the plates. The various features of my invention, are

set forth in the claims and will now be particularly described, reference being had to the

accompanying drawings in which

Figure 1 is a side view of my mattress fill-40 ing apparatus and Fig. 2 is a top view of the lower portion, the uprights being cut on the line x x. Fig. 3 is a front elevation.

A represents a frame work somewhat larger than the size of the mattress to be filled. At 45 one end of the frame are two uprights a a, and resting on the frame is a bottom plate B composed of wood or metal and made as thin as may be consistent with the weight it has to sustain and of the exact width and some-50 what more than the length of the mattress.

that end next the uprights a, by means of a cross bar b placed under it a short distance from the rear of the machine, the extreme end resting underneath a cross piece a^3 se- 55 cured between the uprights. Its front end is supported temporarily as hereinafter shown by a bar b' which may be tipped down or removed at will. Resting on the bottom plate B in certain portions of the operation of the 60 machine is a four sided bottomless frame H indicated by dotted lines in Fig. 2. It is shown in Fig. 1 suspended from the arm a^4 in the upper part of the frame by means of a cord or its equivalent h which passes over 65 pulleys and has attached to its end a counter weight I. This frame is first placed on the bottom plate and the filling material D is put in and evenly distributed over the surface of the bottom plate. I design to have the 70 frame H of a size sufficient to contain just the necessary amount of material for the mattress. Having the frame for a guide, the corners can be filled out sharp and full. After the frame is filled it is removed by lifting it 75 up into the position shown in Fig. 1 after which the top plate C is laid on the filling material, its rear end resting under a cross bar or bearing placed at a distance from the bottom plate represented by the thickness re- 80 quired for the mattress after pressing. I here represent it as simply resting under a cross bolt a^2 connecting the uprights a at the proper height as it only requires something to keep it down at this point. Across the top plate 85 C is then laid the binder E for forcing the plate down to compress the material. The means I show for compressing this binder are two links k one on each side of the machine, the upper end of each link having an eye fit- 90 ting the end of the binder and the lower end being connected with a lever J by means of a bearing j. The lever J is pivoted to the frame at j' and its free end is held down by a catch j^2 on the forward portion of the frame. The 95 operation of these levers will be readily understood without further explanation. After the filling has been pressed down to the required thickness as shown, the tick or case F having one end left open is drawn on up to 100 the binder E, the closed end being slipped up It is supported at its rear end as I shall term I to its position at the end of the plates, the

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support b' having been removed. The clamp | ing located at a distance from the end of said G is now put on over the ends of the plates outside of the tick securing the ends of the plates together. The clamp G may be of any well known construction. I here show a simple form composed of a bar g above and below with bolts g' uniting the ends. The tick is slipped entirely on and the clamp G taken off. The plates are then slipped out or what 10 is the same thing the mattress is slipped off from the plate. The end being sewed up it is ready to be tufted.

It will be seen that a mattress filled by my apparatus will have its filling uniformly dis-15 tributed, each one will be alike in quality and the work can be done much more rapidly than by the old hand process. Another advantage which my apparatus has over the old one, is in filling mattresses having a surface made 20 of wool, cotton or other soft material. It is very difficult in filling by hand the old way to get this in uniformly, while in my apparatus I have only to put in first a layer of the soft filling and cover it with the coarser ma-25 terial.

I claim:—

1. An apparatus for filling mattresses consisting of a bottom plate on which the filling material is placed, said bottom plate being 30 supported at its rear end, a top plate adapted to lie on the top of said filling material and to compress the same, said top plate having a bearing or support for its rear end to keep it down, a binder for forcing the forward end 35 of said top plate downward, said binder beplate sufficient so that the tick may be gathered between said binder and said end a clamp independent of said binder applied at or near the end and over the tick after the same is 40 drawn on, for securing the front ends of said bottom and top plates together and a framework for supporting said parts, substantially as described.

2. An apparatus for filling mattresses con- 45 sisting of a bottom plate on which the filling material is placed said bottom plate being supported at its rear end, a temporary support for the forward end of said bottom plate, a top plate adapted to lie on said filling ma- 50 terial and to compress the same, said top plate having a bearing or support for its rear end to keep it down, a binder for forcing the forward end of said top plate downward, said binder being located at a distance from the 55. end of said plate sufficient so that the tick may be gathered between said binder and said end a clamp applied at or near the end and over the tick after the same is drawn on for securing the front ends of said top and 60 bottom plates together and a framework for supporting said parts, substantially as described.

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

WILLIAM H. MOORE.

Witnesses:

M. A. WAKEFIELD, GEO. W. HESELTON.