

D. HARRIS.

MACHINES FOR STUFFING MATTRESSES.

No. 185,229.

Patented Dec. 12, 1876.

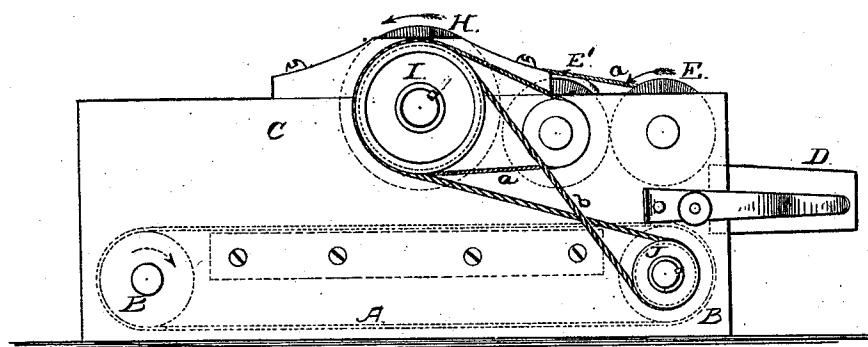


Fig 1

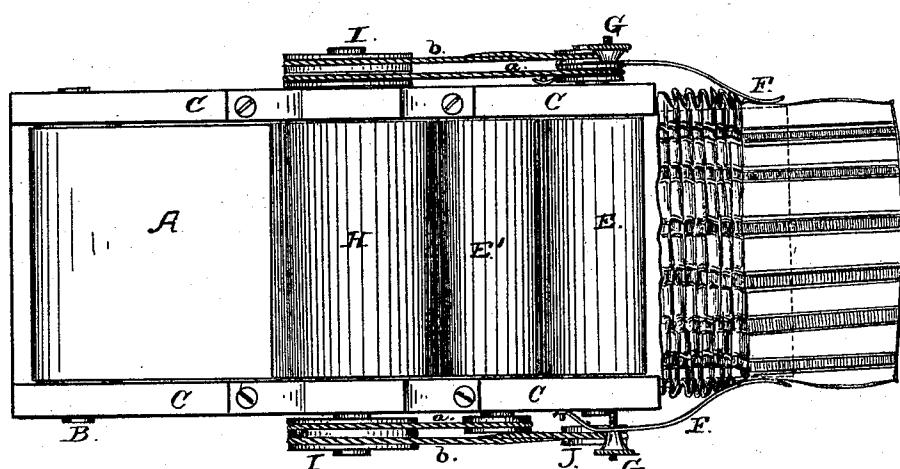


Fig 2

Witnesses:

S. Patters

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UNITED STATES PATENT OFFICE

DAVID HARRIS, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN MACHINES FOR STUFFING MATTRESSES.

Specification forming part of Letters Patent No. 185,229, dated December 12, 1876; application filed August 24, 1876.

To all whom it may concern:

Be it known that I, DAVID HARRIS, of San Francisco, in the county of San Francisco and State of California, have invented an Improved Machine for Stuffing Mattresses; and I do hereby declare that the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which my invention most nearly appertains to construct and use the same.

The object of my invention is to provide means whereby mattresses can be stuffed or filled with greater ease, and much more evenly, in less time, than in the ordinary way. It consists of the feeding-tube, over which the mattress-cover is drawn, in combination with the feeding and driving rollers and the endless apron, as fully hereinafter explained.

Referring to the drawings, and to the letters of reference marked thereon, Figure 1 is a side elevation; Fig. 2, a plan or top view.

A A represent the endless apron, which may be extended rearward to any desired distance. It is supported by rollers B B in the frame C C, and passes over and around a close floor, B', (shown in dotted lines in Fig. 1,) intermediate between the rollers B, which prevents the sagging of the apron when the material is fed to the machine. A mouth-piece or feeding-tube, D, is connected to the end of the frame, just between the outer ends of the endless apron and upper feeding-roller E. The inner end of this tube is made a little flaring, so as to receive the material from the endless apron with greater facility without choking. Flat springs F are placed at each side of the frame, the ends of which press against the sides of the mouth-piece or feeding-tube, and hold the mattress cover or tick in position when it is being filled. The tension of these springs upon the tick is regulated by the set-screws G G.

The feeding-rollers are three in number, E and E' being of about the same diameter, while the driving-roller H is of greater diameter, and is provided with double-grooved pul-

leys I I at both ends, by which connection is had with the rollers E E', by means of the belts a a at opposite ends, and with both ends of the roller B, which drives the apron, by the belts b b.

The operation will be as follows: The tick or mattress-cover having been prepared to receive the material, with one end left open, in the usual way, is run upon the mouth-piece or feeding-tube until its closed end is nearly brought into contact with the outer end of the feeding-tube, when the hair or other material is placed evenly along the feeding-apron. The apron is set in motion by the driving-roller H, which carries the material under the rollers and into the feeding-tube by the combined action of the rollers and feeding-apron, until sufficient compactness is had by the aggregation of the material, when it is gradually forced out of the mouth of the tube into the tick, the pressure being sufficient to gradually force back the tick as the filling progresses.

It is evident that the rollers can be raised or depressed by set-screws, so as to give greater or less space between them and the endless apron.

By this means I provide a machine by which mattresses and cushions can be filled very rapidly, and with greater evenness than can possibly be done by hand.

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

In a machine for stuffing mattresses, the feeding-tube D, in combination with the feeding and driving rollers and endless apron, when constructed and arranged to operate substantially in the manner as herein set forth and specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 11th day of August, 1876.

DAVID HARRIS. [L. S.]

Witnesses:

C. W. M. SMITH,
PHILIP MAHLER.