

(No Model.)

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APPARATUS FOR MAKING GARMENT STAYS.

No. 404,125.

Patented May 28, 1889.

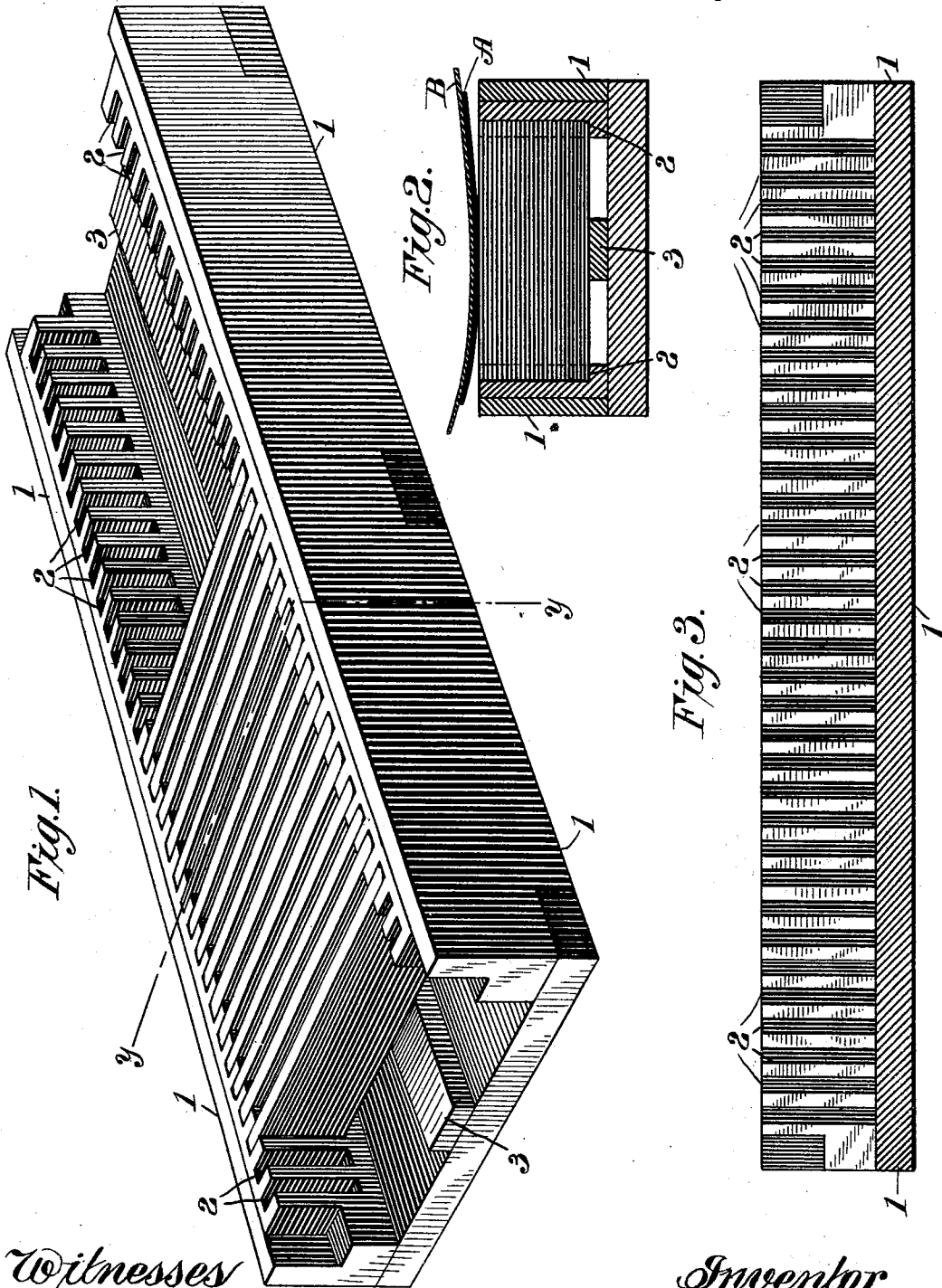


Fig. 1.

Fig. 2.

Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

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APPARATUS FOR MAKING GARMENT-STAYS.

SPECIFICATION forming part of Letters Patent No. 404,125, dated May 28, 1889.

Application filed January 18, 1889. Serial No. 296,745. (No model.)

To all whom it may concern:

Be it known that I, ALFRED TAYLOR, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Apparatus for Making Garment-Stays; 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.

My invention relates to certain new and useful improvements in apparatus for making garment-stays, and has for its object to furnish a machine whereby the blades which form the resilient element of the stays may be accurately and economically covered or enveloped in fabric, and whereby the said blades may be perfectly spaced in the covering material before being separated.

By the use of my improved device the blades are securely held parallel to each other until they are affixed to a portion of the covering material, and this attachment to the covering material serves also to enable the operator to readily remove simultaneously a number of the blades sufficient to make a sheet of the stays.

In order that those skilled in the art to which my invention appertains may more fully understand its construction and the manner in which the same is to be used, I will now describe my apparatus in detail, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective of an apparatus constructed in accordance with my invention; Fig. 2, a transverse section at the line *y y*, Fig. 1, and showing two thicknesses of fabric applied to the blades so as to lift off the top row thereof, and Fig. 3 a longitudinal vertical section through a trough somewhat similar to that shown at Fig. 1, but without the central supporting-rib.

In Fig. 1 certain of the pockets are filled with blades and certain others empty, so that the construction may more readily be seen.

In connection with this application I desire to refer to a certain other application filed by me for Letters Patent for a machine whose

object is similar to that herein described, said application bearing Serial No. 292,954, and date of filing the 7th day of December, 1888.

In the drawings of this application, 1 is a trough or open box of substantially rectangular form, and which may be made of wood or other suitable material. In each inner side wall of this trough is formed a series of pockets, 2, opening inward and upward from said wall, and so arranged that each pocket is opposed to and forms a pair with a pocket at the opposite side of the trough. These pockets may extend downward to a point a little above the floor of the trough, as in Figs. 1 and 2; or they may without departing from the spirit of my invention extend down to the floor. I prefer, however, to make the apparatus with the pockets extending not quite to the floor, and to affix to the latter a central rib or support, 3, extending centrally of the trough throughout its length. This rib serves to give a firm support to the center of the blades and prevents them from sagging or springing at that point when pressure is applied in attaching the fabric.

The operation of my invention is as follows: The several pockets are filled, preferably to the top of the side walls of the trough, with blades of such length that their ends will engage with the pockets and cannot be removed therefrom except upwardly. A sheet of gutta-percha or other adhesive gum, A, is then laid upon the top of all the piles of blades which are in the pockets, and a sheet of textile fabric, B, is laid over the gum. Then a heated iron is passed over the fabric, and the heat of said iron causes the gum to adhere on one side to the top layer of blades and on the other side to the textile fabric. This uniting of the parts may extend to the whole of the contiguous surfaces; but it need only effect a union of the blades, gum, and textile sufficient to permit the said blades to be lifted out of the pockets by means of the fabric. The removal of one layer of blades leaves the next layer exposed and ready to be made to adhere to and then to be lifted off by the fabric. This continues until the level of the blades is considerably below the level of the walls of the trough, and may, if desired, be continued until the last layer of blades has been removed,

although in that case the depth of the trough might interfere somewhat with the smooth contact of the fabrics with the blades and the free passage of the iron over them. Subsequently the sheets with the blades initially attached have another sheet or sheets of gum or textile or both applied to the bare faces of the blades, and the whole is then calendered until adherent throughout its whole area. Then the stays are separated in any desired manner, as by shearing.

I claim—

1. An apparatus for making garment-stays, the same consisting of a trough having a floor, side walls parallel to each other and extending vertically upward from said floor, and a series of pairs of pockets formed in the side walls and extending toward the floor and

adapted to receive piles of stays and permit their removal one by one, successively, substantially as described.

2. As an apparatus for use in making garment and similar stays, the rectangular trough having in the side walls thereof pockets opening inward and upward, and a support for the center line of all the piles of blades arranged upon the floor of the trough and extending longitudinally thereof, substantially as specified.

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

ALFRED TAYLOR.

Witnesses:

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