

(No Model.)

F. CROMPTON.
MACHINE FOR DRYING GARMENT STAYS.

No. 476,252.

Patented June 7, 1892.

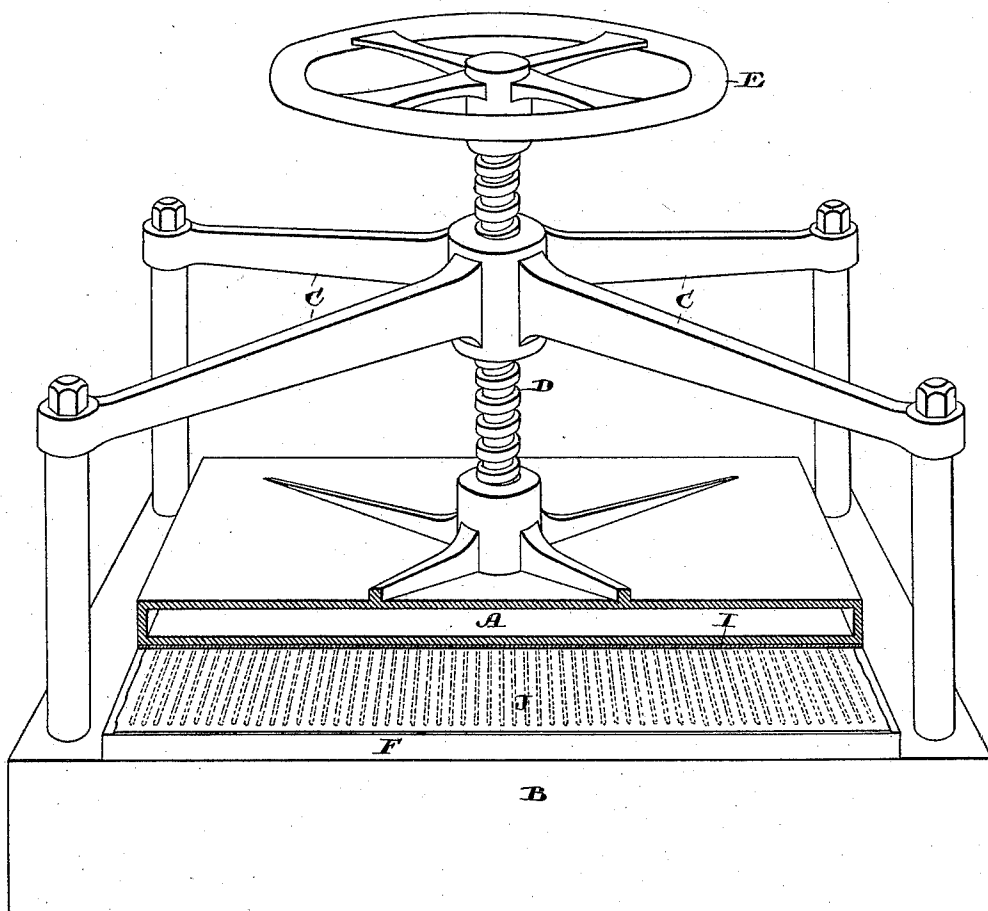


Fig. 1.

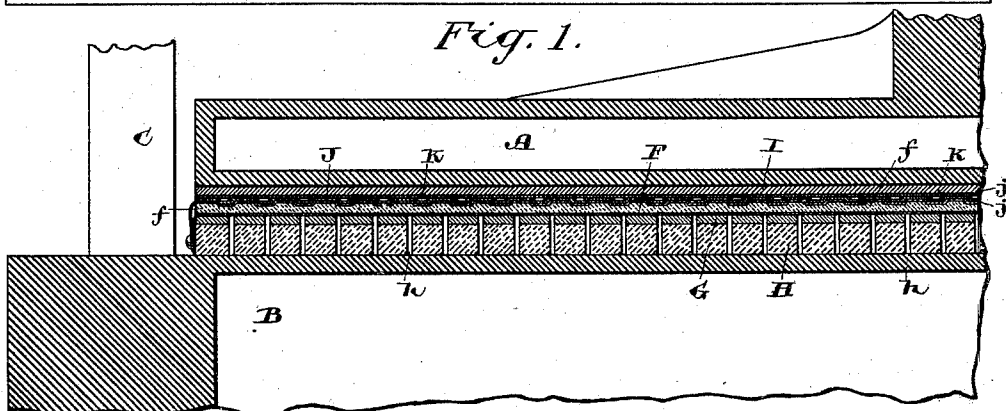


Fig. 2.

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FREDERICK CROMPTON, OF TORONTO, CANADA.

MACHINE FOR DRYING GARMENT-STAYS.

SPECIFICATION forming part of Letters Patent No. 476,252, dated June 7, 1892.

Application filed September 23, 1891. Serial No. 406,605. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK CROMPTON, manufacturer, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Machines for Manufacturing Garment-Stays, of which the following is a specification.

My invention relates to further improvements in the machine for manufacturing garment-stays patented to me in the Dominion of Canada on the 15th day of July, 1891, under No. 36,980, and filed in the United States Patent Office on the 27th of June, 1891, under Serial No. 397,695, and patented October 13, 1891, No. 461,012; and the object of the present invention is to provide a means whereby the sheet of dress-stays which come from the machine described in the above patent wet or damp, may be dried so that each steel or bone in the sheet or sheets will be clearly defined, so as to form a guide when necessary for the stitching.

Figure 1 is a perspective view of the press, partly in section. Fig. 2 is a sectional view through a part of the steam-chest, pad, &c.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is the upper steam-chest, and B the lower, both of which are kept at a high degree of temperature by the passage through them of live steam.

C is the frame.

D is a screw-spindle, and E is a hand-wheel designed to adjust the screw-spindle, whereby the upper steam-chest A may be raised or lowered.

F is the pad, which is placed, preferably, on top of the steam-chest B. The pad F consists of the pad proper *f*, of some elastic or yielding material, the metal plate G, and the wooden lower portion H.

I is the upper plate, between which and the pad F the sheet or sheets of garment-stays are placed. The sheet J consists of the flat side *j* and the corrugated side *j'*, the steels or bones *k* forming the corrugations. This pad is preferably made up of several pieces of blanket or flannel covered by a layer or layers of felt, and upon the top of the felt is placed a covering of fine cotton or linen to make a smooth surface for the reception of the sheet of steels.

When the damp sheets come from the machine described in the patent above referred

to, I place them upon the pad *f*, with the flat side up and the roughly-corrugated side consequently next to the pad F. I then place the plate I on top and then place the whole in the machine between the steam-chests A and B. I then bring down the upper steam-chest A by the hand-wheel E as tightly as possible against the plate I, and in practice leave it in this position for about a minute, and then raise the steam-chest A by means of the hand-wheel E and withdraw the pad F, plate I, and sheet or sheets J from between the steam-chests A and B, and remove the upper plate I and the sheet or sheets J from their position on top of the pad. By this means the sheet or sheets J are thoroughly dried, and as the pad is elastic it fills up the space beneath the steels on the lower side of the sheet. The positions of the steels or bones are very clearly defined. The upper side of the sheet or sheets, however, remains perfectly flat.

In order to allow the escape of the steam from the sheet or sheets J through the pad F, and thus prevent by the rapid drying of the sheet or sheets any possibility of their adhering to the pad, I perforate the pad F by a plurality of holes *h*, so that the moisture will escape and be dried up immediately by the steam-chest B. From this description it will be seen I provide a very rapid and perfect means of drying and defining the steel or bone in each garment-stay, and thereby form a perfect guide to enable the operator to stitch around the stay or bone, when it is desired to make a garment-stay of a superior class.

What I claim as my invention is—

1. In combination, the lower chest B, the yielding pad F thereon, upon which the sheets to be finished are placed, and the upper adjustable steam-chest with means for applying pressure thereto, substantially as described.

2. In combination with the upper and lower steam-chests of a press, the removable pad F, having a yielding upper surface and a plurality of holes to allow for the escape of moisture, and the plate I, carried by the upper chest, substantially as and for the purpose set forth.

FREDERICK CROMPTON.

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