(No Model.)

T. HAWLEY.

STAY PRESS FOR RUBBER CLOTHING.

No. 294,318. Patented Feb. 26, 1884.

Fig. 1.

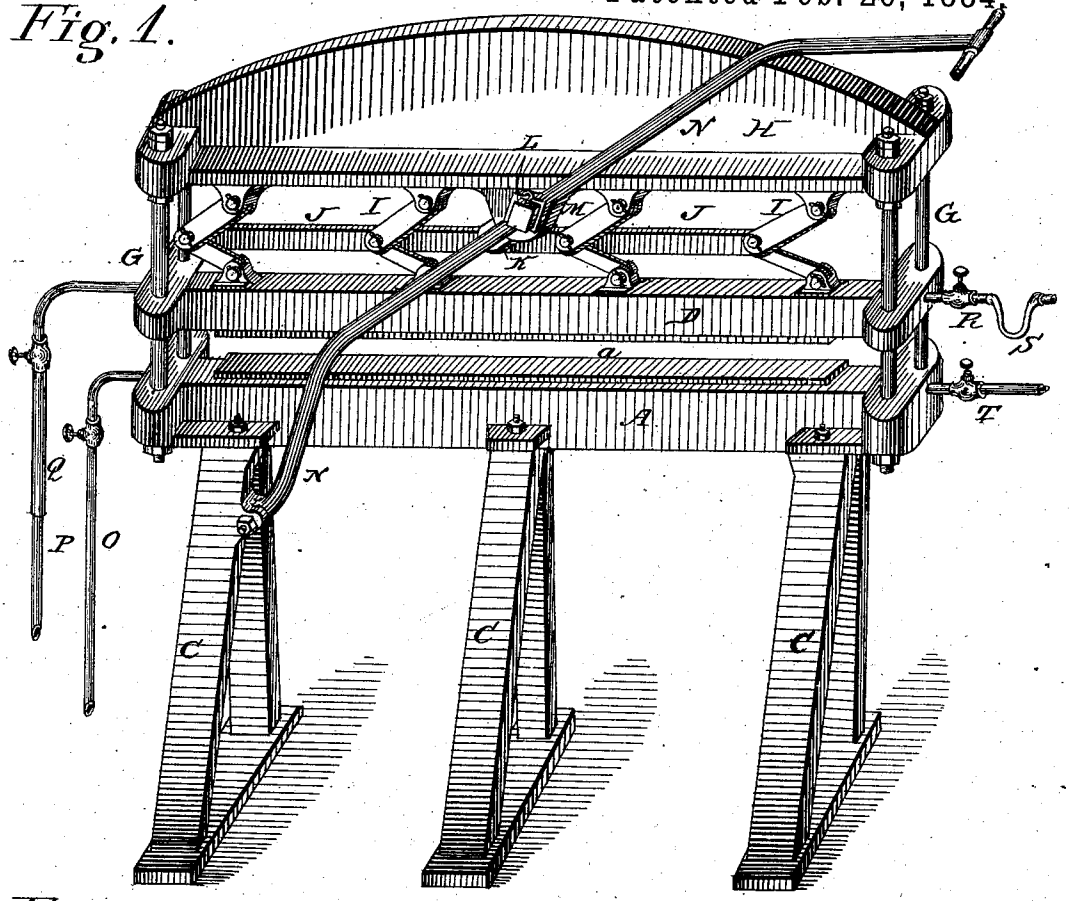
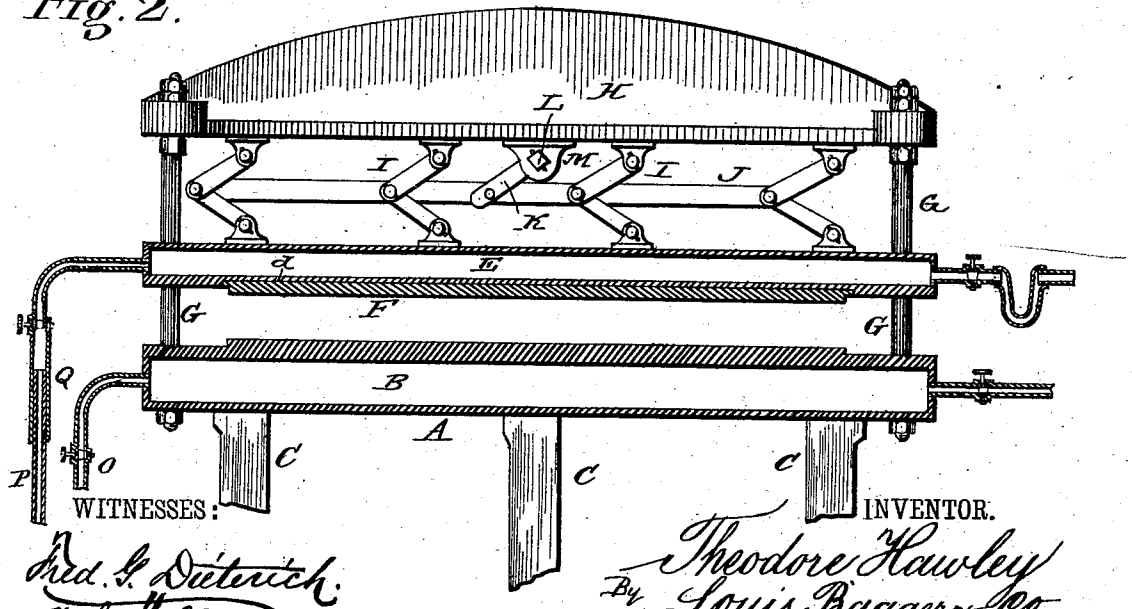


Fig. 2.



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UNITED STATES PATENT OFFICE.

THEODORE HAWLEY, OF FAIRFIELD, CONNECTICUT, ASSIGNOR OF ONE-HALF TO E. W. HARRAL, OF SAME PLACE.

STAY-PRESS FOR RUBBER CLOTHING.

SPECIFICATION forming part of Letters Patent No. 294,318, dated February 26, 1884.

Application filed October 18, 1883. (No model.)

To all whom it may concern:

Be it known that I, THEODORE HAWLEY, of Fairfield, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Stay-Presses for Rubber Clothing; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my stay-press for rubber clothing, and Fig. 2 is a sectional detail view through the top part of the same.

Similar letters of reference indicate corresponding parts in both the figures.

In the manufacture of rubber clothing the button-holes are usually re-enforced by stays, which are cemented upon the rubber fabric, care being taken that they are perfectly flat and without wrinkles. It is also frequently the case, especially in the manufacture of rubber clothing of the heavier grades of fabric, that the button-holes are bound or lined with a cord, which is interposed between the fabric proper of which the article is made, and the re-enforcing stay cemented upon it. Heretofore these stays have been cemented upon the fabric wherever required and smoothed out by hand; but inasmuch as this is an operation requiring considerable manual strength as well as skill, it is difficult to place the stays perfectly flat and even upon the garment.

To this end my invention consists in the detailed construction, as hereinafter more fully described and claimed, of a press adapted to fix the stays upon the fabric to which they are to be applied, in the manner and for the purpose which I shall now proceed to describe.

My improved press consists of a fixed bed, A, which is provided with a raised part, *a*. This bed is hollow, so as to form a steam-chamber, B, as shown more clearly in Fig. 2 of the drawings, and is, by preference, made of cast-iron, and supported upon uprights or feet C, of suitable height. D is the movable platen of the press, which, like the fixed bed A, is made of cast-iron, and hollow to form a steam-chamber, E. The under side of this movable platen D is recessed, as shown at *d*, to receive a cushion, F, made of pure rubber packing about half an inch thick by six inches wide and about four feet long. The platen D slides up and down upon the guide-bolts G, which connect the fixed bed A with the top part, H, of the press, and is operated by toggle-levers I, which in turn are actuated by the connecting-rods J, the middle part of which is jointed to a crank, K, the shaft L of which is journaled in a bushing, M, affixed upon or forming part of the top part. H. Shaft L is actuated by means of a double lever, N, as shown in Fig. 1 of the drawings. By operating this lever it will be seen that the platen D will be brought with considerable pressure against the raised portion *a* of the fixed bed A. This, as well as platen D, is heated by steam, which is fed to the steam-chambers B and E, respectively, through steam-pipes O and P, connecting them with a boiler or other suitable steam-generator. In order to allow platen D to move up and down, its steam-pipe P is provided with a telescopic joint, Q, and the outlet-pipe R, through which the steam escapes from chamber E, is provided with a flexible joint, S. T is the outlet for steam-chamber B in the fixed bed A, and both the inlet-pipes and outlet-pipes are provided with suitably-constructed check-valves or stop-cocks for controlling the flow of steam.

From the foregoing description, taken in connection with the drawings, the operation of my improved press will readily be understood without further description. After the stays or re-enforcing patches have been cemented upon the fabric, this is spread out smoothly upon the raised part *a* of the fixed bed A, which should be ground off and polished to present a perfectly smooth and glassy surface. The bed and platen are then heated by turning on the steam, after which the platen is brought down by operating lever N, the flexible cushion F yielding, so as to permit an even pressure upon all parts of the stay, irrespective of the raised parts formed by the cords by which the button-holes are re-enforced.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

A stay-press for rubber clothing, consisting of the fixed bed A, having steam-chamber B and raised portion *a*, movable platen D, having steam-chamber E, and recessed on its under side at *d*, elastic cushion F, means for actuating the movable platen D, fixed steam-pipe O, steam-pipe P, having telescopic joint Q, fixed exhaust-pipe T, and exhaust-pipe R, having flexible joint S, the whole constructed and combined substantially in the manner and for the purpose herein shown and described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

THEODORE HAWLEY.

Witnesses:
W. W. HARRAL,
DANIEL MOLONEY.