

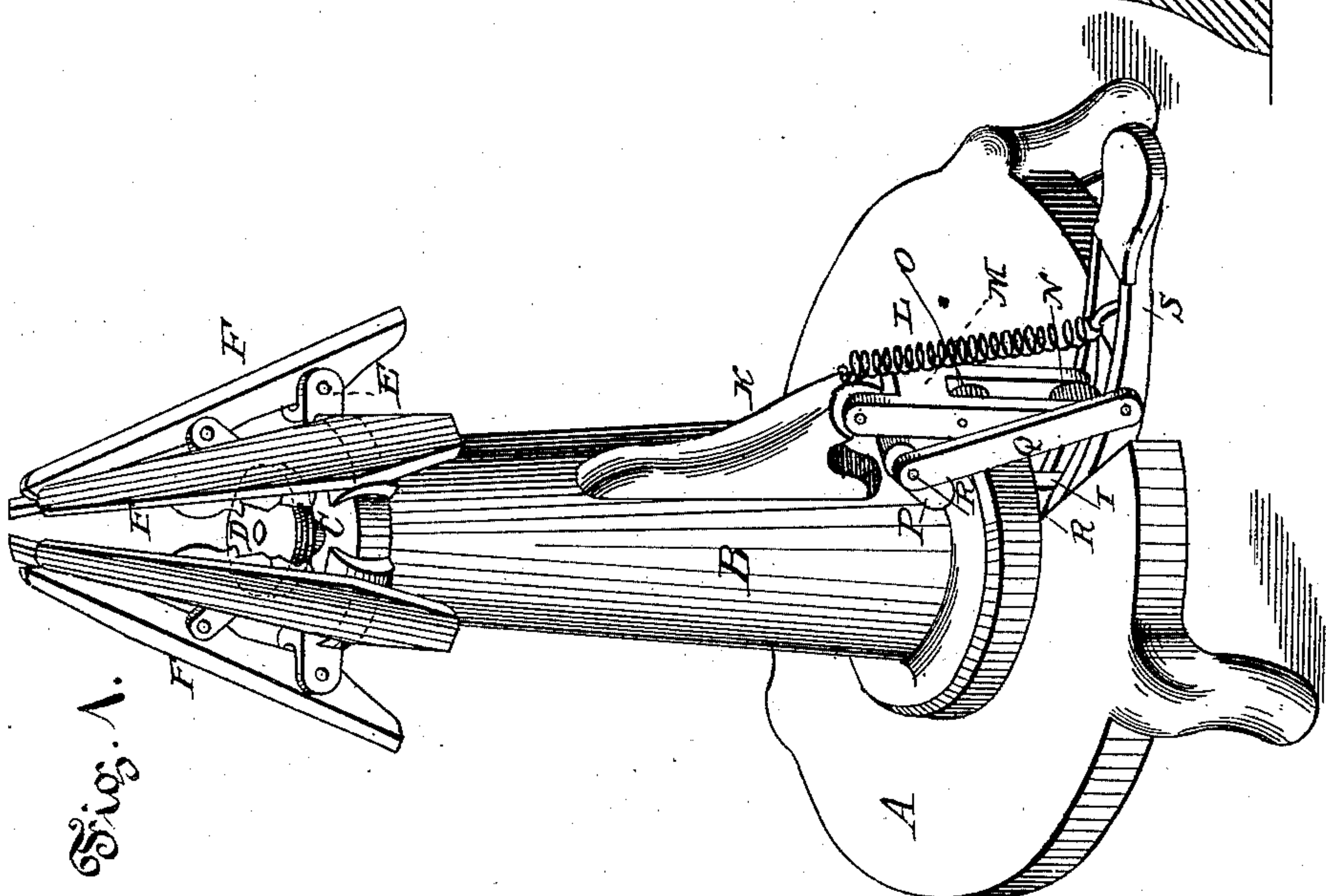
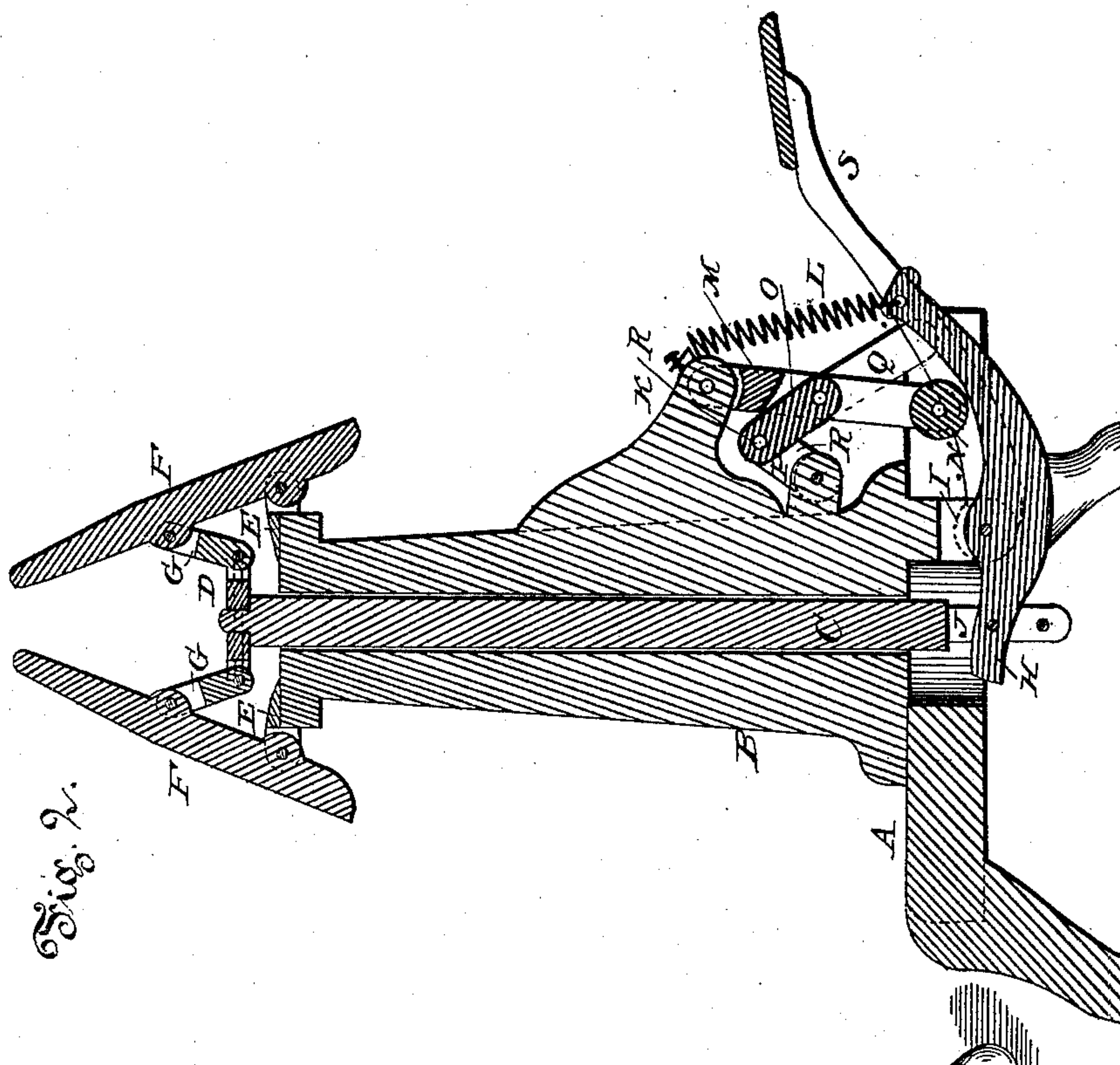
(No Model.)

J. H. GESNER.

MACHINE FOR STRETCHING HAT TIPS.

No. 277,703.

Patented May 15, 1883.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES HENRY GESNER, OF MONTREAL, QUEBEC, CANADA.

MACHINE FOR STRETCHING HAT-TIPS.

SPECIFICATION forming part of Letters Patent No. 277,703, dated May 15, 1883.

Application filed January 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. GESNER, of Montreal, in the Province of Quebec and Dominion of Canada, have invented certain new and useful Improvements in Machines for Stretching Hat-Tips; 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 improved hat-tip-stretching machine, and Fig. 2 is a vertical section of the same.

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

My invention has relation to machines for stretching hat-tips; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a three-legged stand, having in its center a hollow upright, B, in which slides a rod, C, provided at its upper end with a disk, D. The upper end of standard B has a series of bearings, E, in which are pivoted arms or levers F, which all point toward the center, forming a sort of a cone. A series of arms, G, are pivoted in the rim of disk D, and are hinged to the inclined levers F, above bearings E, so that by raising and lowering the rod C and its disk the levers F may be spread or gathered.

To operate rod C the inner end of a lever, H, which is pivoted in bearings I in the lower end of upright B and extends out through a slot in the stand, is inserted in a slot, J, in the lower end of rod C. The outer end of this lever H is connected to a bearing or projection, K, on the side of the upright by a spiral spring, L, which holds it up. An arm, M, which is slotted at its lower end and provided with a roller, N, which bears against the upper side of lever H, is hinged to projec-

tion K, while a toggle, O, which is hinged to two other toggles, P, pivoted upon the stand, is hinged in the slot above the roller. Two arms, Q, are hinged upon the pin R, connecting the toggles O and P, one at each end, and are hinged to both arms of a bifurcated foot-lever, S, hinged upon the bearings I.

It will be seen that by depressing the foot-lever the arms Q will straighten the toggles, which will force arm M out, which will depress lever H and raise rod C, while the spiral spring will raise lever H when the pressure is removed from the foot-lever and bring all the parts back in their former position.

It will also be seen that a more even pressure—which is desirable in stretching hat-tips, as a sudden strain might cause a rent in the tip—will be obtained by the roller N pressing upon the upward curved end of lever H as arm M is drawn out, and that a larger force may be brought to bear upon the outer end of lever H by using the toggles P and arms Q, hinged to the foot-lever.

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

1. The combination of rod C, lever H, spiral spring L, slotted arm M, having roller N, toggles O and P, arms Q, and foot-lever S, substantially as and for the purpose shown and set forth.

2. The combination of upright B, mounted upon stand A, having slot J, rod C, having disk D, arms G, inclined levers F, lever H, spiral spring L, slotted arm M, having roller N, toggles O and P, arms Q, and bifurcated foot-lever S, all constructed and combined to operate substantially as and for the purpose shown and set forth.

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

JAMES HENRY GESNER.

Witnesses:

T. C. GILSON,
J. H. PAYNE.