

Tailors' Pressing Machines.

Patented March 25, 1873.

This diagram shows a perspective view of a machine for drawing a curve. It consists of a table A supported by four legs. A curved plate R is mounted on the table, with a sliding bar M attached to it. A handle H is connected to the bar M. A base W is attached to the table. The machine is designed to draw a curve on a surface.

Fig. 8.

A mechanical diagram showing a lever system. A horizontal beam *A* is supported by a vertical post. A curved lever *R* is pivoted at *Y*. A weight *W* is suspended from the beam. A spring *P* is connected to the beam and the lever. A curved line *B* is shown below the beam. A vertical post *C* is on the right, and a horizontal line *X* is at the bottom.

A schematic diagram of a Y-junction. The junction has three arms. The top-left arm is labeled Y . The top-right arm is labeled I . The bottom arm is labeled P . The junction is labeled k at the bottom. The diagram shows the geometry of the junction and the positions of the labels.

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IMPROVEMENT IN TAILORS' PRESSING-MACHINES.

Specification forming part of Letters Patent No. 137,100, dated March 25, 1873.

To all whom it may concern:

Be it known that I, ALVAH C. SAWYER, of Canton, St. Lawrence county, State of New York, have invented certain Improvements in Tailors' Pressing-Machines, of which the following is a specification:

The nature of my improvement consists, first, in certain mechanical arrangements whereby the goose is allowed to descend upon the work in a vertical line with the press-board, thus avoiding all, or nearly all, side pressure; secondly, by causing the back of the machine to reciprocate vertically, (in substitution for the rocking motion,) this keeps the flexible arm in a position at right angles with the pin upon which it turns, and allows the goose to stop wherever the operator leaves it to adjust his work, giving him more perfect control over his machine.

Having thus described the nature and object of my improvement, I hereby declare that the following is a true, full, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

Figure 1 is a perspective view, and Fig. 2 is a part sectional view, showing my improved mode of raising the pressing-arm and goose. Fig. 3 is a top view of the weighted lever looking down upon it.

Like letters refer to like parts.

A A is a table, made in any of the well-known forms. R E is the reciprocating back,

with its extended treadle U extending to the front of the machine, and terminating in the foot-pad X, Fig. 2. Underneath the table is a weighted lever, I, pivoted to the table at P, Fig. 2. This lever is also pivoted to the back at Y Y, Figs. 1 and 2. The weight W is attached to this lever at K. This weight W should be sufficient, by any adjustment, to raise the goose clear of the press-board L, or to balance it. The parallel rod B is pivoted to the back at E E, Figs. 1 and 2. It is also pivoted to the front girt at c, Fig. 2. This parallel rod is merely to keep the back in position. N M is a flexible arm, to which is attached, by ball-and-socket joint S H, the goose O. This arm is attached to the back by a hinge-joint at Q, Fig. 1. The press-board I may be made in any of the well-known forms. T is the handle of the goose. It is only necessary to press upon the foot-pad of the treadle to bring pressure upon the goose, its several joints above the table allowing perfect control of the goose.

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

The lever I, parallel rod B, in combination with the vertical reciprocating back R E, substantially as and for the purpose set forth.

ALVAH C. SAWYER.

Witnesses:

THOMAS V. RUPELL,
THEODORE CALDWELL.