G. W. & B. F. Parrott & E. H. Timson,

Viner Machine,

No. 85,123. Patented Dec. 22, 1868.

Fig. 2.

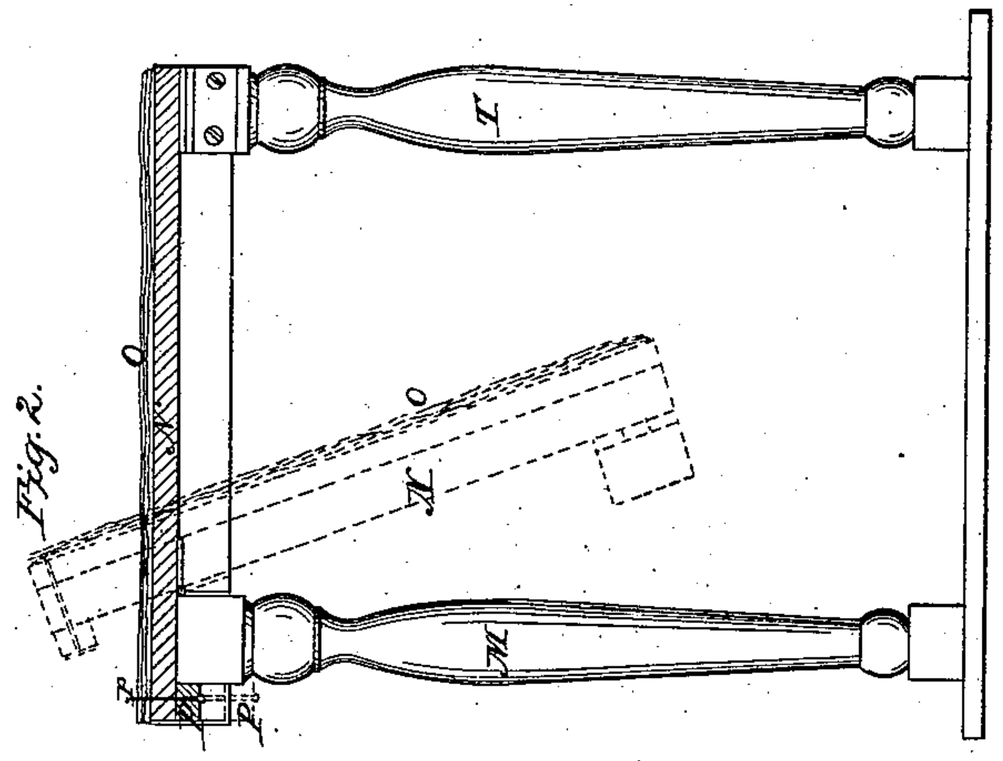

Fig. 3.

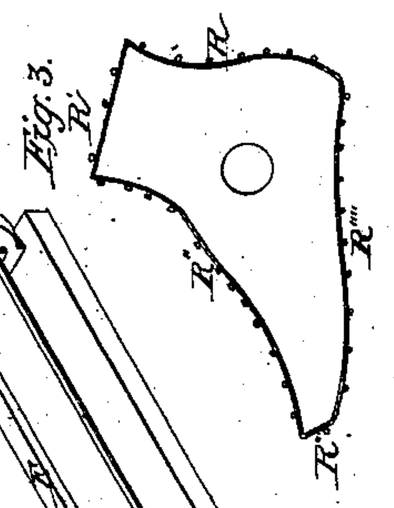

Fig. 1.

Witnesses
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G. W. PARROTT, B. F. PARROTT, AND E. H. TIMSON, OF LYNN, MASSACHUSETTS.

Letters Patent No. 85,123, *dated December* 22, 1868.

IMPROVED MACHINE FOR FOLDING AND CUTTING MATERIAL FOR SHOE-UPPERS, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, G. W. PARROTT, B. F. PARROTT, and E. H. TIMSON, all of Lynn, in the county of Essex, and State of Massachusetts, have invented certain new and useful Improvements in Machines for Folding and Cutting Material for Shoe-Uppers, &c.; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists—

First, in constructing the folding-table of the cutting-machine so that it may be turned into a vertical position, for convenience in folding and attaching the material; also, in providing the said table with a series of sharp pins projecting through it, upon which the cloth may be hung while being folded, said pins being connected with a movable bar beneath the table, so that they may be withdrawn from the material at a single operation.

Second, in using, in combination with the vibrating head-block, movable dies or cutters.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and use.

In the drawings—

Figure 1 is a perspective view of our machine.

Figure 2 is a section of the folding-table of the same.

Figure 3 represents in plan one of the cutting-dies.

A B C form the base and principal standards, to which the other parts of our machine are attached.

D represents the main shaft, which carries a fly-wheel, E, and a crank-disk, H. The shaft D does not make a complete revolution, its action being reciprocal.

F is a boot-board, attached to two levers, one of which, F′, is shown.

The lever F′ is attached to a staple in the shaft D, as represented in fig. 1, so that when the foot-board F is depressed, the shaft D makes a part revolution.

K is a vertical-reciprocating head-block, which is actuated by two pitmen, one of which, H′, is shown in fig. 1.

These pitmen connect with two crank-disks attached to the end of the shaft D, one of which, H, is shown.

From the above description, it will be seen that by depressing the foot-board, the head-block K will be pressed down. Its upward action is caused by a spring, S, shown in dotted lines in fig. 1.

The table N is hinged to one or more fixed standards, like *m*, figs. 1 and 2, and has attached to its opposite edge, by hinges, one or more legs, like the one represented by T, fig. 2, which may be folded under the table, to admit of the table's being let down, to assume the vertical position represented in dotted lines in fig. 2.

P is a longitudinal bar, placed immediately under the edge of the table, as shown in the drawings, and has affixed to it a series of pins, *p p*, &c., which extend upward through perforations made in the table.

The bar P, to which the pins are fixed, is movable, that is, it may be lowered sufficiently to withdraw all of the pins to a point below the surface of the table.

Fig. 3 represents a die or cutter, which is made by affixing to the edge of a properly-formed block, Q, a number of thin pieces of steel, R R′, &c., forming joints at each angle.

To operate our machine, we proceed as follows:

The table N, which may be of any desired length, is turned down, as represented by dotted lines in fig. 2, then one fold of the cloth or fabric is hooked to the pins *p p*, &c., for the entire length of the table. At the end of the table the cloth is carefully folded, and the second fold is attached to the pins as before. This operation is repeated until the cloth is accurately folded, and adjusted to itself and the table. Now, the table is raised to a horizontal position, and there held by the leg T. The pins being withdrawn by lowering the bar P, the cloth is ready to be drawn over the cutting-block L, the head-block K being elevated.

To complete the operation, lay the dies or cutters upon the cloth, and bring down the head-block K, by depressing the foot-board L.

From the fact we use movable dies, the cloth can be cut in our machine with the same economy of material that it could be cut by hand, the operator adjusting the dies on the cloth to the best advantage.

What we claim as our invention, and desire to secure by Letters Patent, is—

In a machine for folding and cutting material for shoe-uppers, &c., a table folding down, and operating substantially as described, and for the purpose set forth.

Also, in combination with the same, the pin-bar P, working substantially as described, and for the purpose set forth.

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