

A. GIRAUX & L. DROVON.
Hat-Ironing Machines.

No. 150,757.

Patented May 12, 1874.

Fig. 1

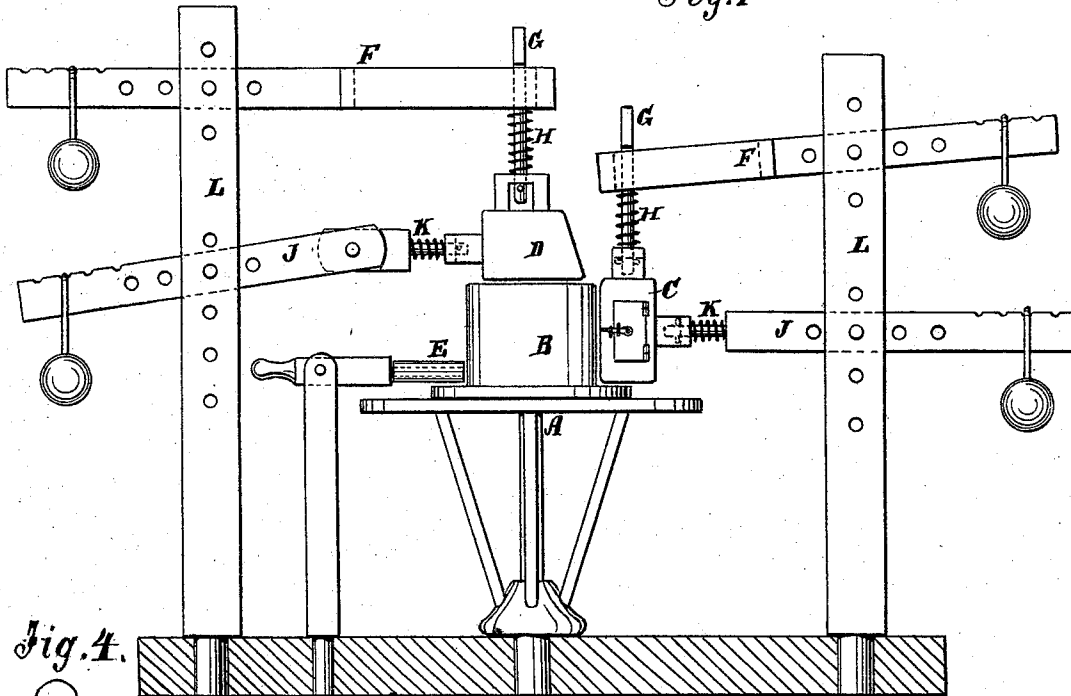


Fig. 4.

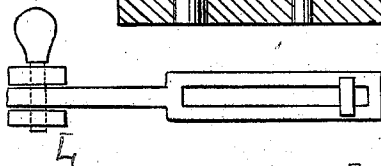


Fig. 2.

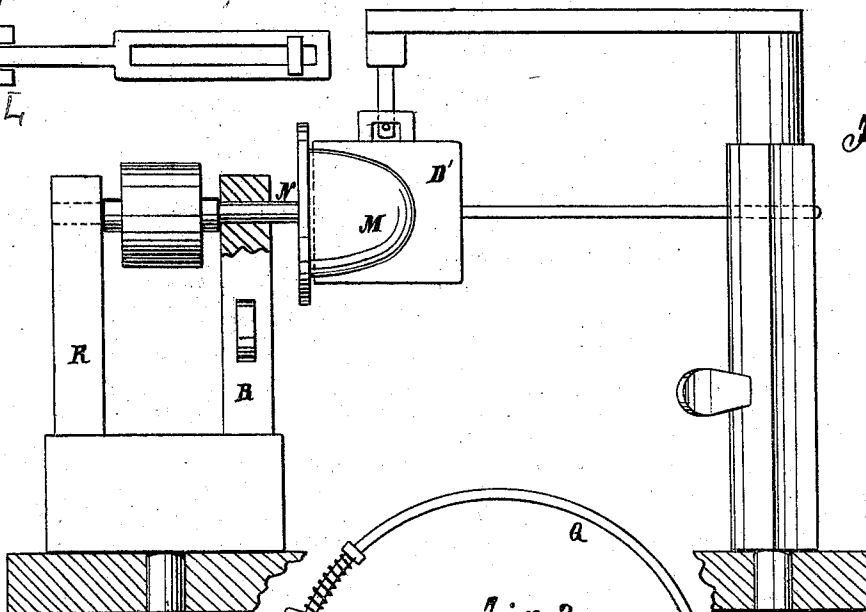
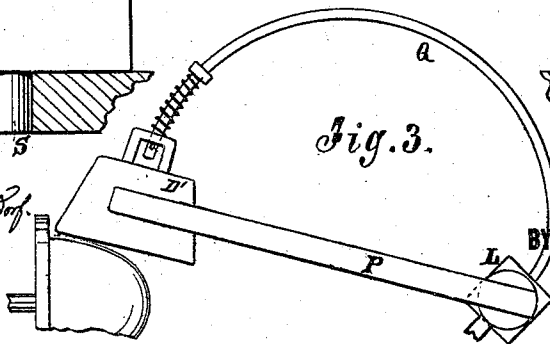


Fig. 3.



WITNESSES.

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ANTOINE GIRAUX, OF ORANGE, AND LOUIS DROVON, OF NEWARK, N. J.

IMPROVEMENT IN HAT-IRONING MACHINES.

Specification forming part of Letters Patent No. **150,757**, dated May 12, 1874; application filed March 14, 1874.

To all whom it may concern:

Be it known that we, ANTOINE GIRAUX, of Orange, in the county of Essex and State of New Jersey, and LOUIS DROVON, of Newark, in the county of Essex and State of New Jersey, have invented a new and Improved Hat-Ironing Machine, of which the following is a specification:

Our invention consists of irons suspended from balance-levers by flexible joints, and the levers arranged on swinging supports in such manner that the labor of presenting and holding the irons to the work is materially lessened, and the irons can be applied to better advantage, and the pressure regulated better, than in other machines.

Figure 1 is a side elevation of a revolving hat-block and our improved apparatus for presenting and holding the irons to it, the arrangement being adapted for hats having flat crowns. Fig. 2 is a side elevation of the same contrived for hats having round crowns. Fig. 3 is a detail of one of the suspending-levers, and Fig. 4 is a detail of the apparatus for holding the iron to the block for the round-crowned hats.

Similar letters of reference indicate corresponding parts.

A represents a revolving stand having a hat-block, B, on the top for flat-crowned hats. C is the iron for dressing the sides; D, the one for the top; and E a roller for dressing the top of the brim. These irons we suspend from a balance-lever, F, by a hanger, G, movable along the lever and capable of turning in it, and connected to the irons, so that they can turn on it, and rise and fall relatively to the levers. H is a spring on the suspending-rod, to hold the irons down by elastic pressure, by using the lever for that purpose. We also connect the irons to the end of another balance-lever, J, by oscillating joints, which also

allow the irons to move forward and backward on the levers, and we mount the levers on a turning-post, L, to swing the irons up to and away from the former, for convenience in applying the hats to the former and removing them. In case of a block, M, for round-crowned hats, which will be arranged on a horizontal mandrel, N, only one iron D will be used, and it will be suspended from rigid arms P Q mounted on a turning-post, L, but it will be connected to the arms in the same, or nearly the same, manner, and the mandrel of the block will be mounted on a stand, R, capable of moving around a center, S, to bring all parts of the block into contact with the iron. The irons will be made hollow, to be heated by heaters placed in the hollow space, and inclosed by a door, in the same manner as they are now heated in other machines. The balance-levers F J are arranged to be shifted forward and backward on their pivots, to adjust the irons as may be required. The joints K connecting the irons with the levers J are designed to be rigid in the direction in which the friction acts on the irons, to prevent them from being displaced by the friction. It will be seen that by means of these balance-levers the irons can be handled with facility.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination, with block B and the iron that smooths the brim, of the roller placed in advance thereof and operating to flatten the brim and enable it to run under the iron with facility.

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Witnesses:

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