(No Model.)

G. ROTH.

HAT SETTING OR FLANGING MACHINE.

No. 520,082. Patented May 22, 1894.

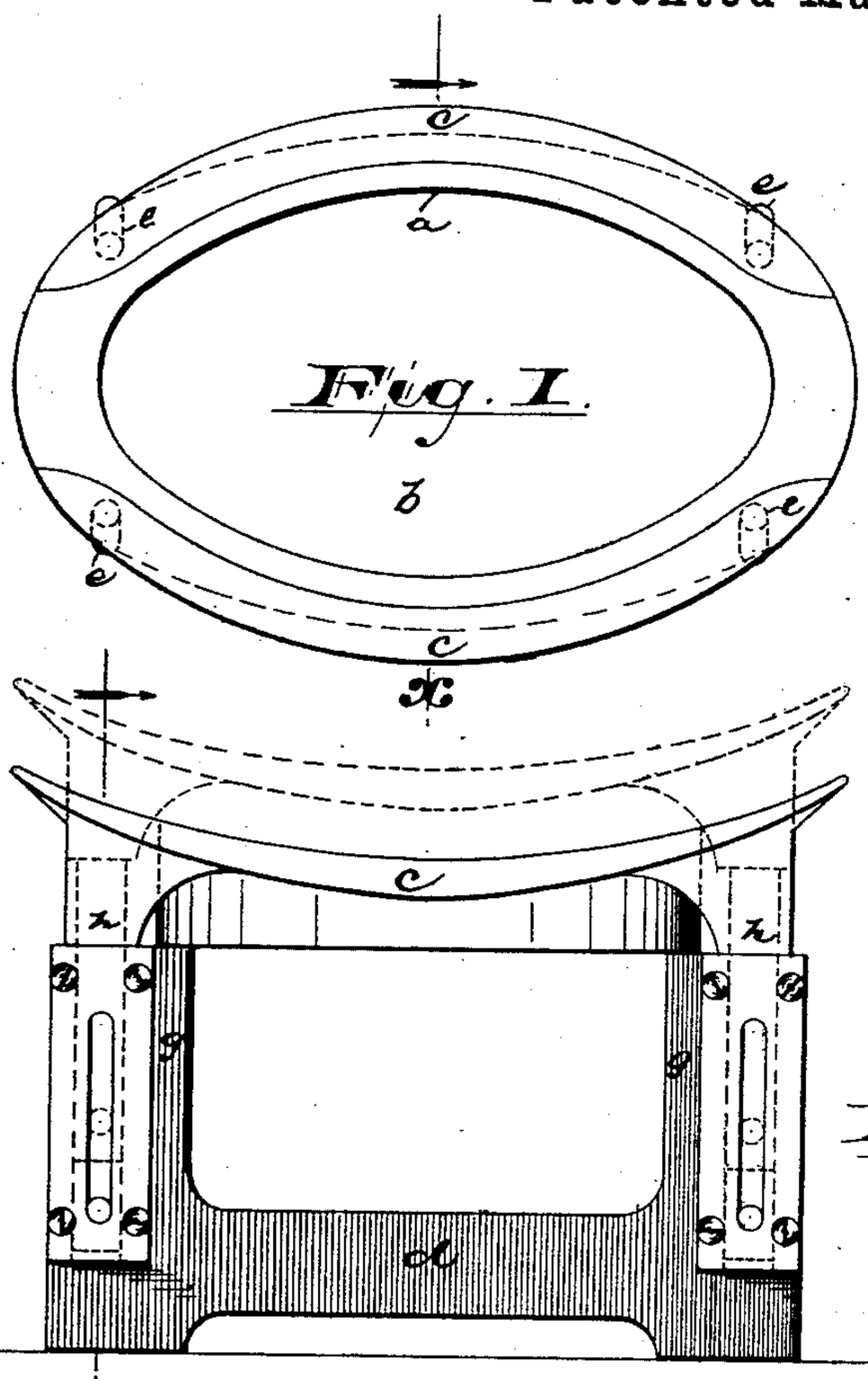

Fig. 1.

Fig. 2.

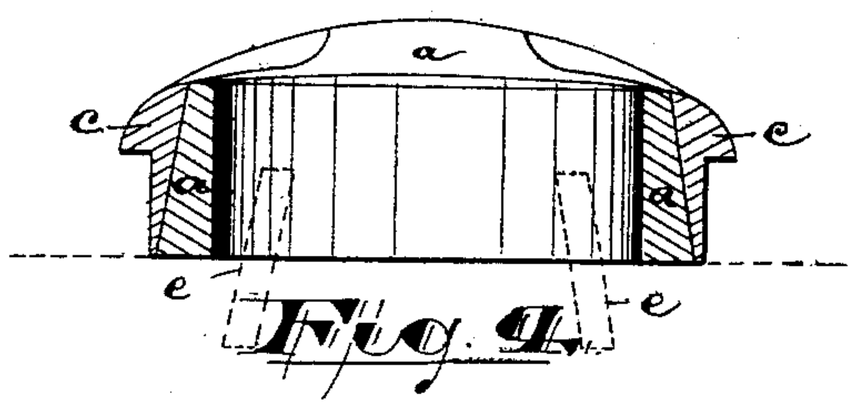

Fig. 4.

Fig. 3.

Witnesses

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GEORGE ROTH, OF NEWARK, NEW JERSEY.

HAT SETTING OR FLANGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 520,082, dated May 22, 1894.

Application filed February 6, 1892. Serial No. 420,584. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ROTH, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Hat Setting or Flanging Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to set the brim of a hat, or to curve the same concavously on the under side as viewed in side elevation, with greater facility and neatness than can be done by the means heretofore in use and without the exercise of the peculiar skill required of hand labor.

The invention consists in the improved hat brim setting machine and in the arrangements and combinations of parts substantially as will be hereinafter set forth and finally be embodied in the clauses of the claim.

Referring to the accompanying drawings in which which like letters indicate corresponding parts in each of the several figures, Figure 1 is a plan of a "flanging" machine; Fig. 2 a side elevation of a setting machine and Figs. 3 and 4 are sections taken respectively on lines *y* and *x*, Figs. 1 and 2.

The construction shown in Figs. 1 and 4 may be considered as modifications of the invention shown in Figs. 2 and 3.

In said drawings, *a* indicates an oblong frame having an oval aperture, *b*, therein to receive the hat body and at the opposite sides having inclined bearings against which side pieces having corresponding inclines are suitably held, the upper sides or surfaces of both the frame or body *a* and the side pieces *c*, *c*, when viewed in side elevation as in Fig. 2 are concavously curved and project laterally outward and are curved or rounded to give the desired curl to the hat brim.

In the devices as employed in hat "flanging," which is a species of setting the body is suitably arranged on a table without an elevating frame, *d*, and the side pieces *c*, *c*, are suitably held in place by pins *e*, *e*, which are inclined to correspond with the inclines of the body, the said pins being properly secured upon the table *f*.

In the setting machine the body or frame *a* is secured upon or forms a part of standards *g*, *g*, which are also provided with inclined bearings on which the side pieces slide to and from their operative positions. In the preferred construction, the side sections are carried by inclined legs, *h*, which work in suitable ways in the standards, but said legs may be integral with the upper portions of the side pieces. By raising the side sections, the inclined bearings guide said side pieces toward one another so that the curled hat brim may be arranged thereon, the curl of the brim fitting over the said sections or pieces as will be understood. After placing the hat on said raised sections, the crown or body entering in between the same, said sections are lowered to a position in which the upper surfaces correspond or coincide. The side surfaces at the same time move outwardly and are brought closely under the curl and the brim as a whole is brought to rest solidly upon the sectional flange or portions which provide the form on which the brim is pressed, on which it may be ironed or otherwise manipulated. After the set is given to the brim the sections are again raised to admit of the hat being removed from the machine.

It may be stated that to set a hat is to put the hat on the flange after it is curled. The hat, being warmed until it is soft, is placed on the flange and cooled when it will have the desired shape of the flange. To flange a hat is to steam it and when soft it is pulled over and tacked to the flange.

While the processes of flanging and setting vary somewhat and the machines also vary in minor details, I consider the said machines, so far as this invention is concerned, one and the same or equivalents.

Having thus described the invention, what I claim as new is—

The improved machine for setting the curl in the brims of hats herein described, in

which is combined an oblong frame having a central aperture *b*, to receive the hat body and at the opposite sides having inclined bearings against which side pieces or sections are adapted to slide vertically to or from the vertical center of said frame, and said side pieces, arranged to slide on the said bearings and having flanges adapted to enter within the curl of the brim when said sections are lowered, and to be removed therefrom when said sections are raised with the hat, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 19th day of January, 1892.

GEORGE ROTH.

Witnesses:
CHARLES H. PELL,
OSCAR A. MICHEL.