

(Model.)

F. LAW, Sr.
Hat-Flanging Machine.

No. 226,525.

Patented April 13, 1880.

Fig: 1.

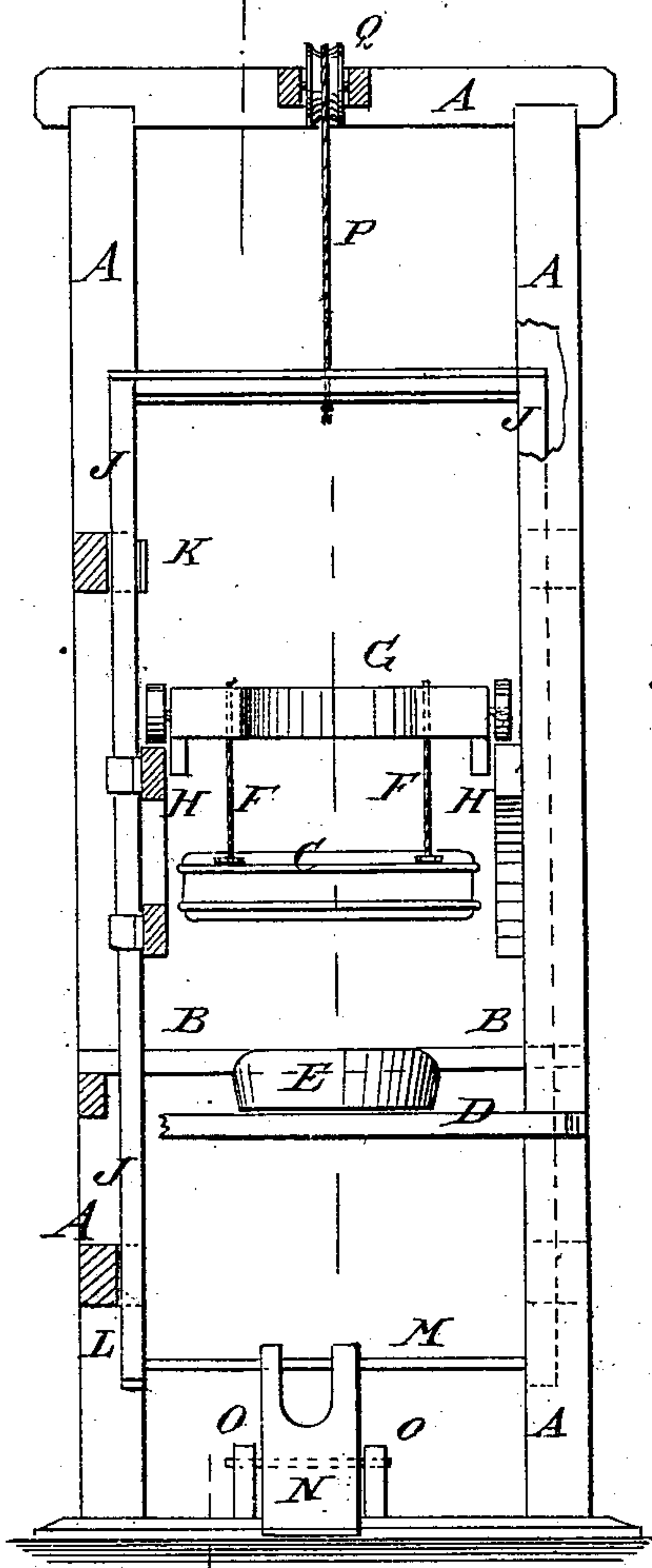


Fig: 2.

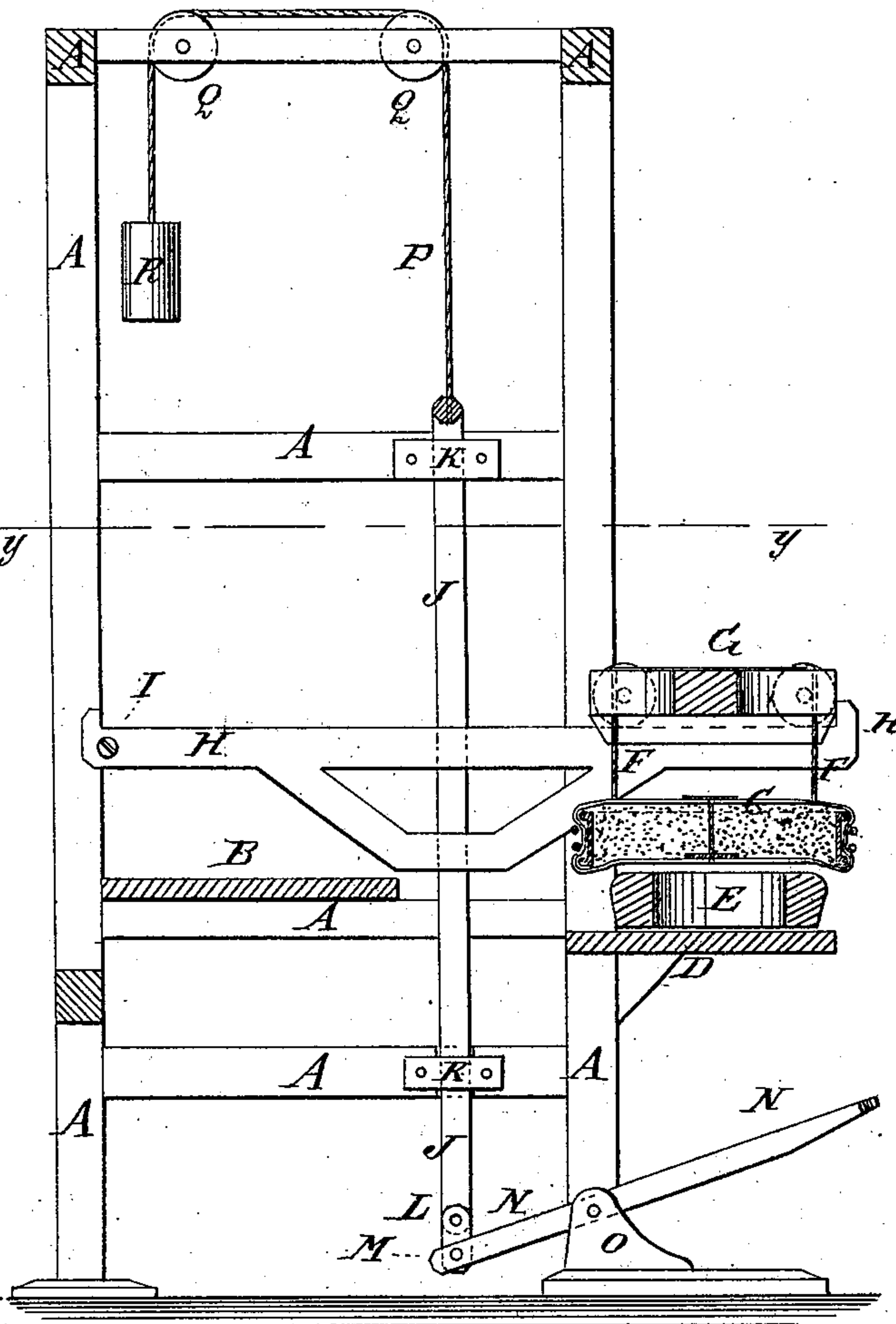


Fig: 4.

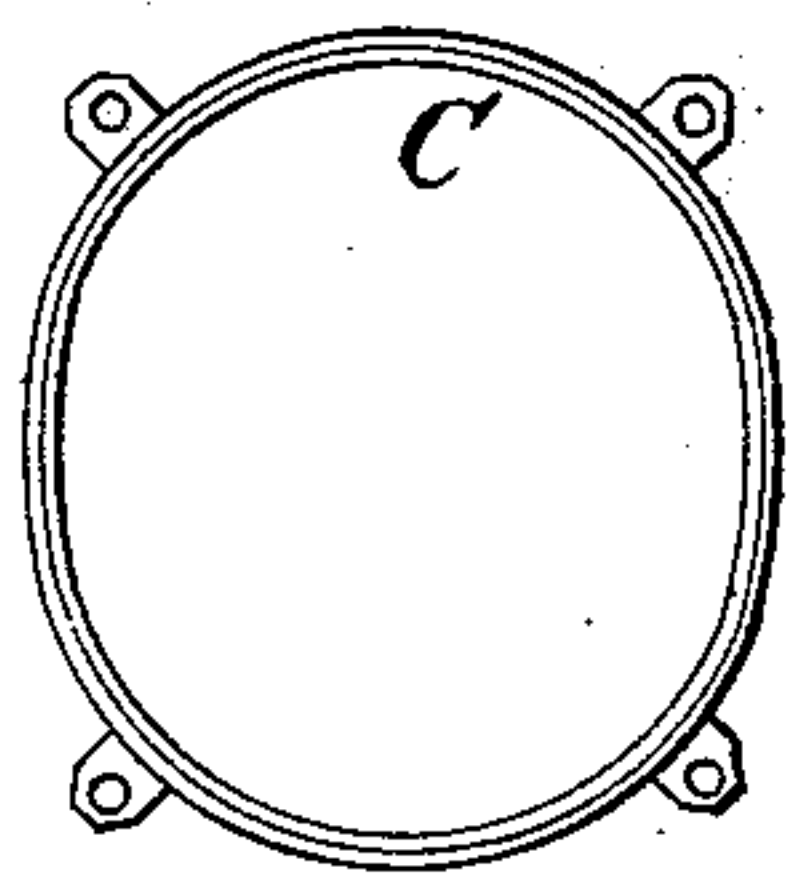
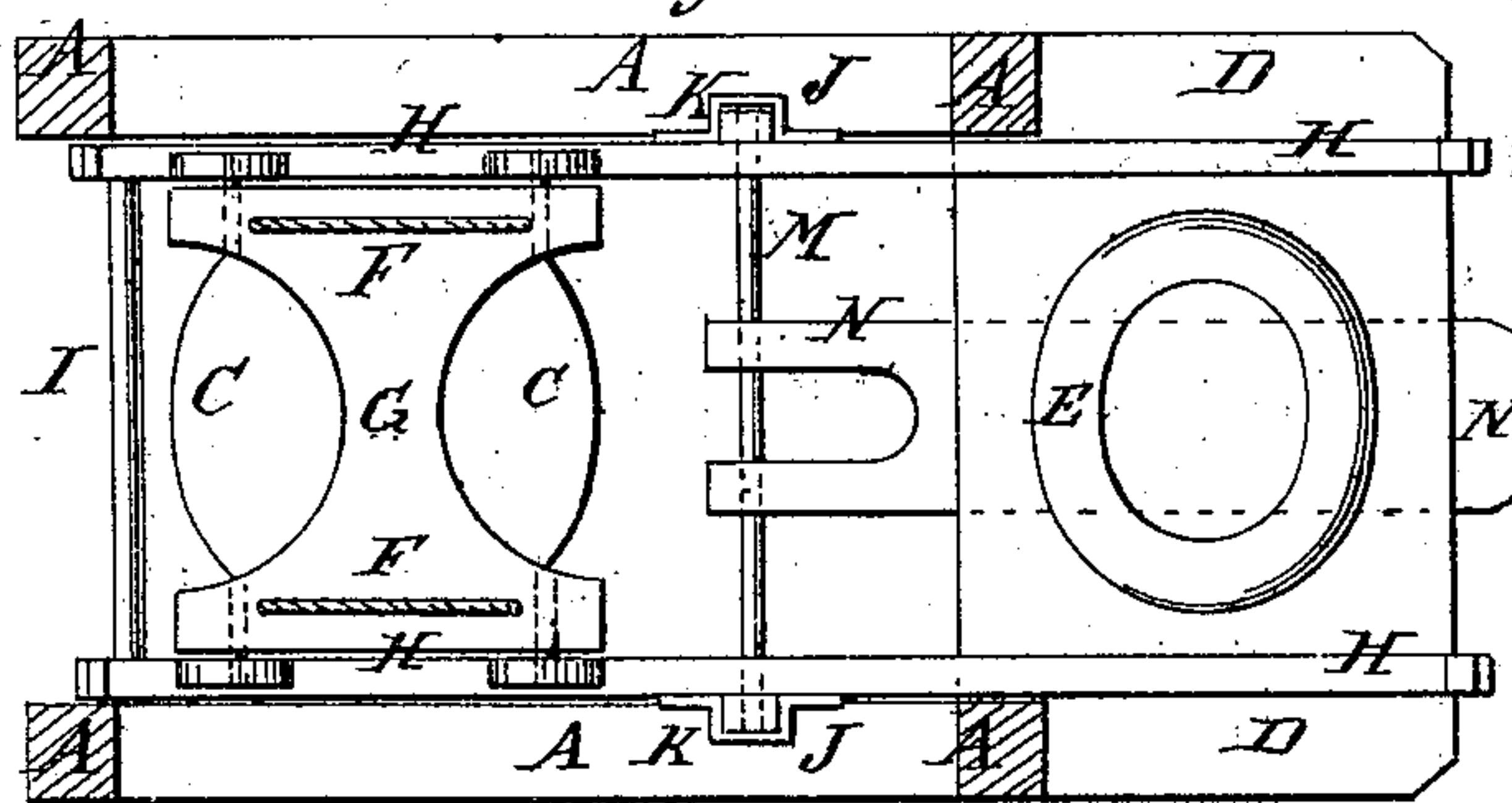


Fig. 3.



WITNESSES:

WITNESSES:
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UNITED STATES PATENT OFFICE.

FRANCIS LAW, SR., OF EAST ORANGE, (BLOOMFIELD P. O.,) NEW JERSEY.

HAT-FLANGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 226,525, dated April 13, 1880.

Application filed March 1, 1880. (Model.)

To all whom it may concern:

Be it known that I, FRANCIS LAW, Sr., of East Orange, (Bloomfield P. O.,) in the county of Essex and State of New Jersey, have invented a new Improvement in Hat-Flanging Machines, of which the following is a specification.

Figure 1 is a front elevation, partly in section, of the improvement shown with the sand-weight raised. Fig. 2 is a sectional side elevation taken through the line *xx*, Fig. 1, the sand-weight being shown lowered. Fig. 3 is a sectional plan view taken through the line *yy*, Fig. 2, the sand-weight being shown raised and moved back. Fig. 4 is a plan view of the sand-weight hoop.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish hat-flanging machines so constructed that the sand-weights can be conveniently raised and lowered upon the flanges to press the brims of hats.

The invention consists in constructing a hat-flanging machine of a frame having table and bench, a suspended sand-weight, a carriage and track for carrying the sand-weight, uprights and a treadle for raising and lowering the said sand-weight, and a balancing-weight, as will be hereinafter fully described.

In the drawings, A represents the frame of the machine, to the rear part of which is attached a table, B, to receive and support the sand-weight C when not in use. The table B is designed to be made hollow to receive steam to heat the sand-weight C. To the forward part of the frame A is attached the bench D, to support the flange E, that receives the hat to be flanged.

The sand-weight C is formed of a hoop of metal or other suitable material to receive the sand, and having lugs upon its outer side to receive the cords by means of which the cloth cover that confines the sand is secured to it. Upon the opposite sides of the center are placed two small disks, connected by a cord passing through the said weight to prevent the middle part of the weight from sagging.

To the sand-weight C are attached cords F, which are also attached to the four corners of

the carriage G. The carriage G rests or travels upon two bars or rails, H, which are connected by rods I, and are rigidly attached to two upright bars, J.

The carriage G may be provided with wheels to roll upon the rails H, as shown in Figs. 1, 2, and 3, or it may slide upon the said rails. I prefer to use the wheels, as allowing the carriage to move more easily.

The uprights J slide up and down in keepers K, attached to the side bars of the frame A, and to their lower ends are attached, by jointed connections L, the ends of a rod, M, to the middle part of which is pivoted the end of a treadle, N.

The treadle N is pivoted to supports O at the forward side of the machine, and its outer end projects into such a position that it may be conveniently reached and operated by the operator with his foot. The jointed connections L allow the uprights J to move up and down vertically, while the end of the treadle N that operates them moves in the arc of a circle.

In using the machine, the hat to be flanged is placed in the flange E. The sand-weight C is raised from the table by operating the treadle N. The carriage G is drawn forward, and the sand-weight C is lowered upon the flange E, pressing the hat-brim down upon the flange E and giving it the desired shape. When the hat has been sufficiently pressed the sand-weight C is again raised by operating the treadle N, the carriage G is pushed back, and the sand-weight C is lowered to the table B, to be again heated.

To a cross-bar connecting the upper ends of the uprights J is attached a cord, P, which passes over guide-pulleys Q, pivoted to the top of the frame A. To the other end of the cord P is attached a weight, R, of sufficient gravity to nearly balance the appliances connected with the said uprights J, so that the sand-weight C and the carriage G may be more easily operated.

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

1. A hat-flanging machine constructed substantially as herein shown and described, con-

sisting of the frame A, having table B and bench D, the suspended sand-weight C, the carriage G, the track H, the uprights J, the treadle N, and the balancing-weight R, as set forth.

5 2. In a hat-flanging machine, the combination, with the frame A, having table B and bench D, of the carriage G, carrying sand-weight C, the track H, the sliding uprights

J, the treadle N, and the balancing-weight R, substantially as herein shown and described, whereby the sand-weight can be conveniently and easily handled, as set forth.

FRANCIS LAW, SR.

Witnesses:

JOHN R. LAW,
WILLIAM CARDWELL.