

S. H. Taylor,

Brick Machine.

No. 102,777.

Patented Nov. 29, 1870.

Fig. 1.

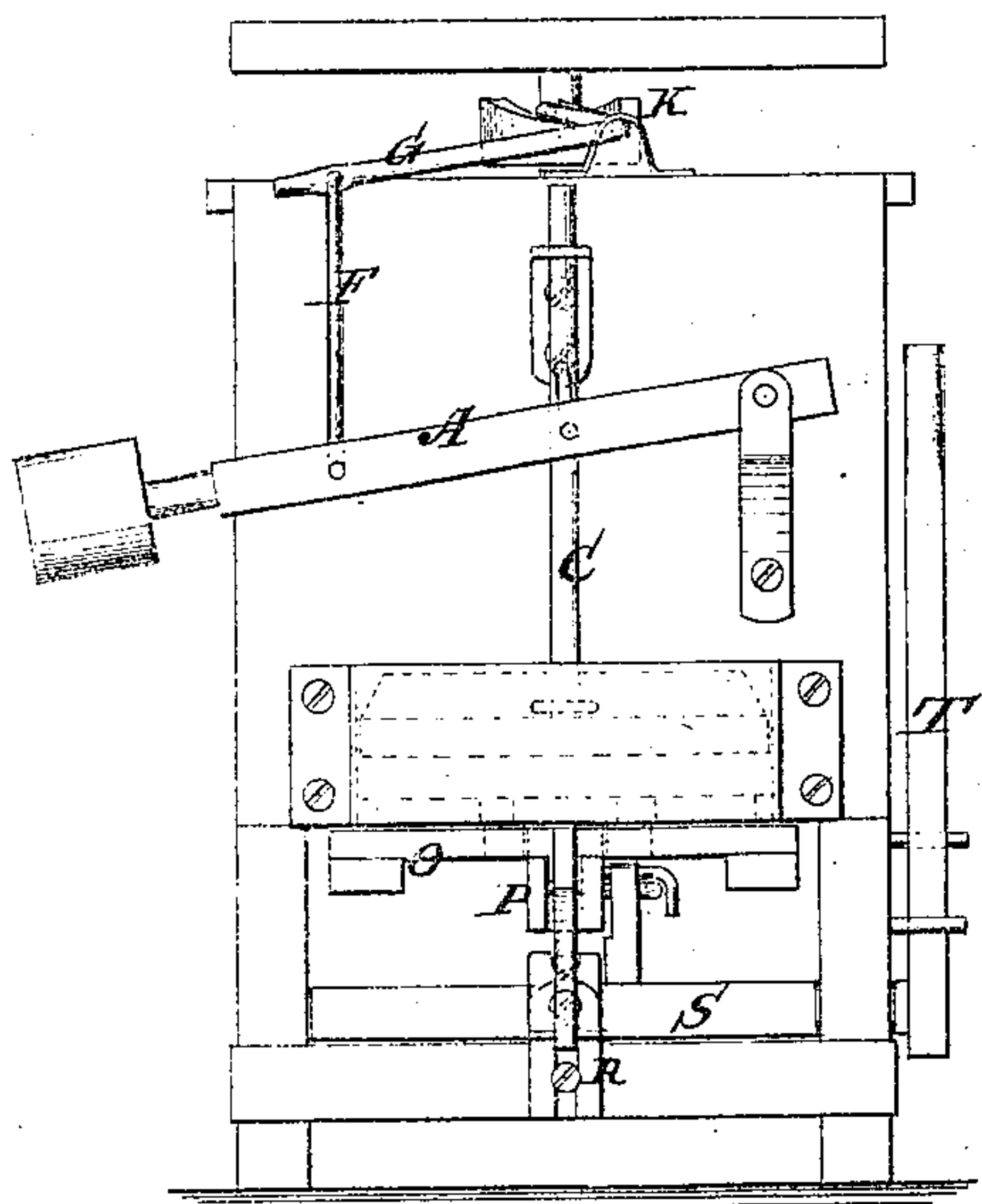


Fig. 3.

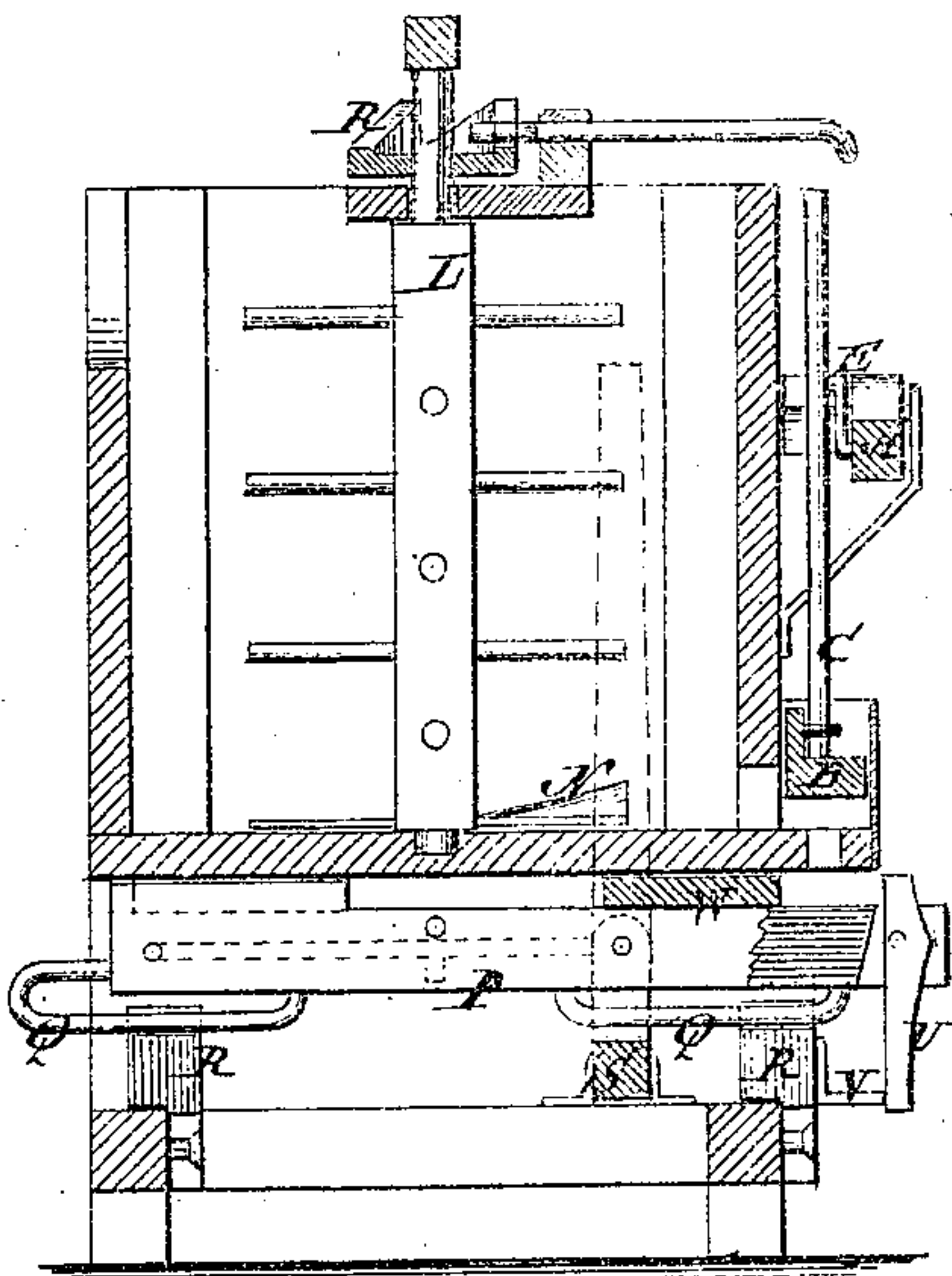
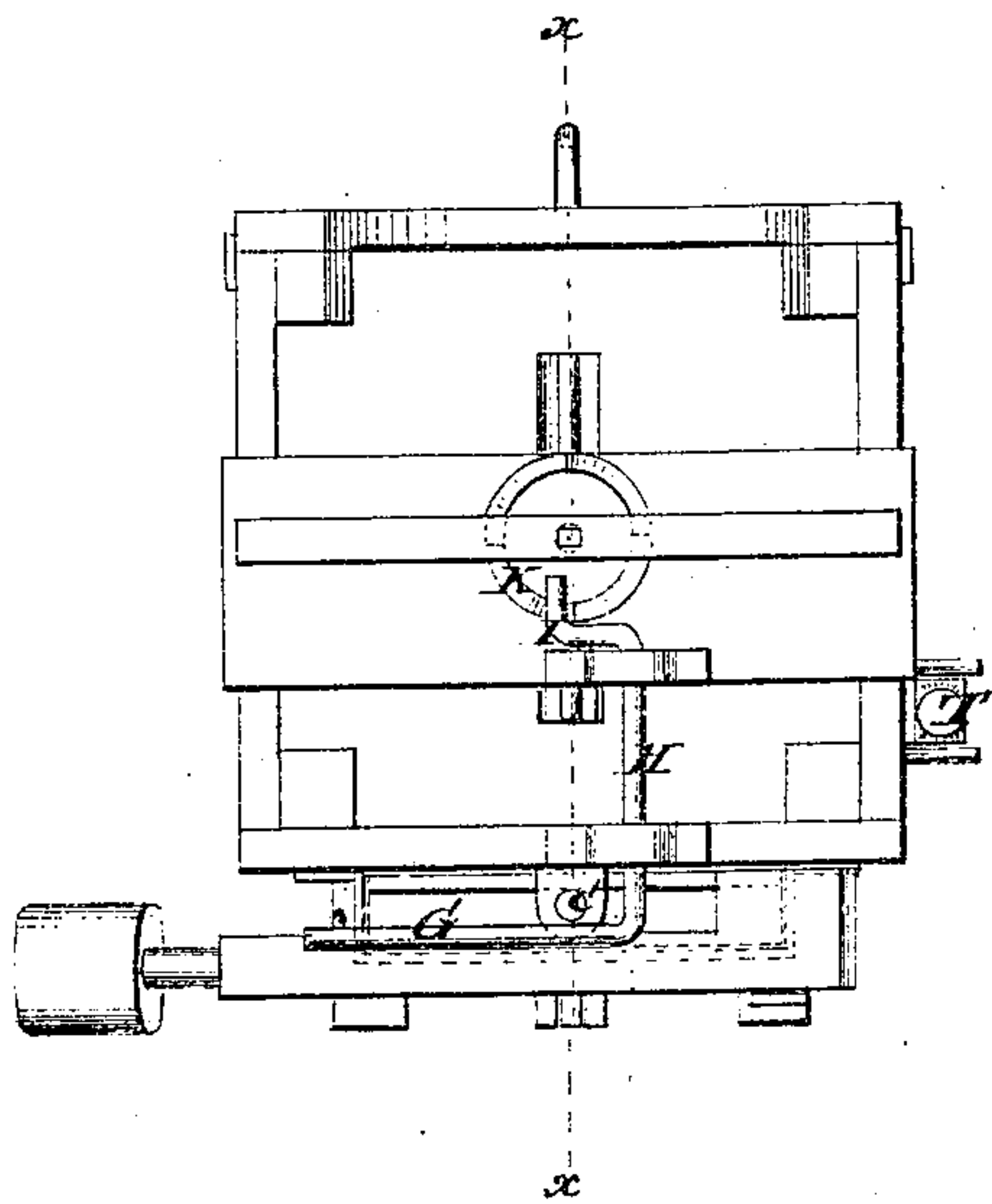


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

SAMUEL H. TAYLOR, OF JACKSONVILLE, ILLINOIS, ASSIGNOR TO HIMSELF
AND LE GRAND PARKER.

IMPROVEMENT IN BRICK-MACHINES.

Specification forming part of Letters Patent No. **109,777**, dated November 29, 1870.

To all whom it may concern:

Be it known that I, SAMUEL H. TAYLOR, of Jacksonville, in the county of Morgan and State of Illinois, have invented a new and Improved Brick-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to improvements in brick-machines; and it consists in the application to the pressing-follower of a weighted lever for forcing it down to press the brick, and a mechanism for raising it connected with the shaft of the mud-mill.

It also consists in an improved construction of the mold-carriage, calculated to simplify it, and to facilitate the adjustment of it with the bottom of the mill; and it also consists in an arrangement with the carriage of a clamping-lever for holding the mold-box in such a way that it will be forced against the box by coming against a stop where the carriage is moved under.

Figure 1 is a side elevation of my improved machine. Fig. 2 is a plan of the same, and Fig. 3 is a sectional elevation taken on the line *x x* of Fig. 2.

Similar letters of reference indicate corresponding parts.

A is a weighted lever, pivoted at one end to the side of the mud-mill, and connected to the stock C of the follower B by a cranked bolt or pin, E, or any other arrangement which will admit of the lever and follower rising and falling. The lever A is connected by a rod, F, with the arm G of a cranked shaft, H, mounted on the top of the mill, and having another cranked arm, I, which is arranged relatively to the cam-wheel K, mounted on the shaft L, so that it will be raised, and raise the lever A and follower at the time the pushers F on the lower end of said shaft are in the position to fill the mold-box, and fall so that the weighted arm A will raise the follower at the proper time.

The cam-wheel K has four tappets in this example to raise the follower four times at each revolution of the shaft; but it may have more or less, as may be required.

The arrangement affords a very simple means of working the follower, as will be readily seen.

The mold-box carriage O is mounted on a single strong beam, P, having the shoes or slides Q made of bent bars or rods of iron, as shown, attached to the under side and fitted in grooved supports R, which are made vertically adjustable for regulating the carriage relatively to the bottom of the mold. This adjustment may be made with less labor and more accurately with one set of supports than when more are used, and the bearing of the table against the bottom of the mold will be more even. The cost of construction is also reduced by this plan.

The carriage is moved back and forth by the oscillating shaft S and hand-lever T, in the ordinary way of working such carriages.

U is a short lever, pivoted to the front end of the carriage so that the short end will project upward in advance of the brick-mold, and the long arm hang down so as to be arrested by a stop, V, just previous to the end of the inward movement of the carriage, whereby the short end will be forced against the mold-box and clamp it firmly against the plate W or other part of the mill, to hold it while filling. The forward movement of the carriage releases the lever from the stop, so that the mold-box may be drawn off the front over the short end of the lever, which will be turned down by the box.

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

1. The combination, with the follower and the shaft L, of the weighted lever A, cranked shaft H, cam K, and connections E F, all substantially as specified.

2. The mold-carriage mounted on the beam P, having the shoes Q arranged in the adjustable supports R, all substantially as specified.

3. The combination, with the mold-carriage, of the lever U and stop V, substantially as specified.

SAMUEL H. TAYLOR.

Witnesses:

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