

(No Model.)

H. MARTIN.
BRICK MACHINE.

No. 346,931.

Patented Aug. 10, 1886.

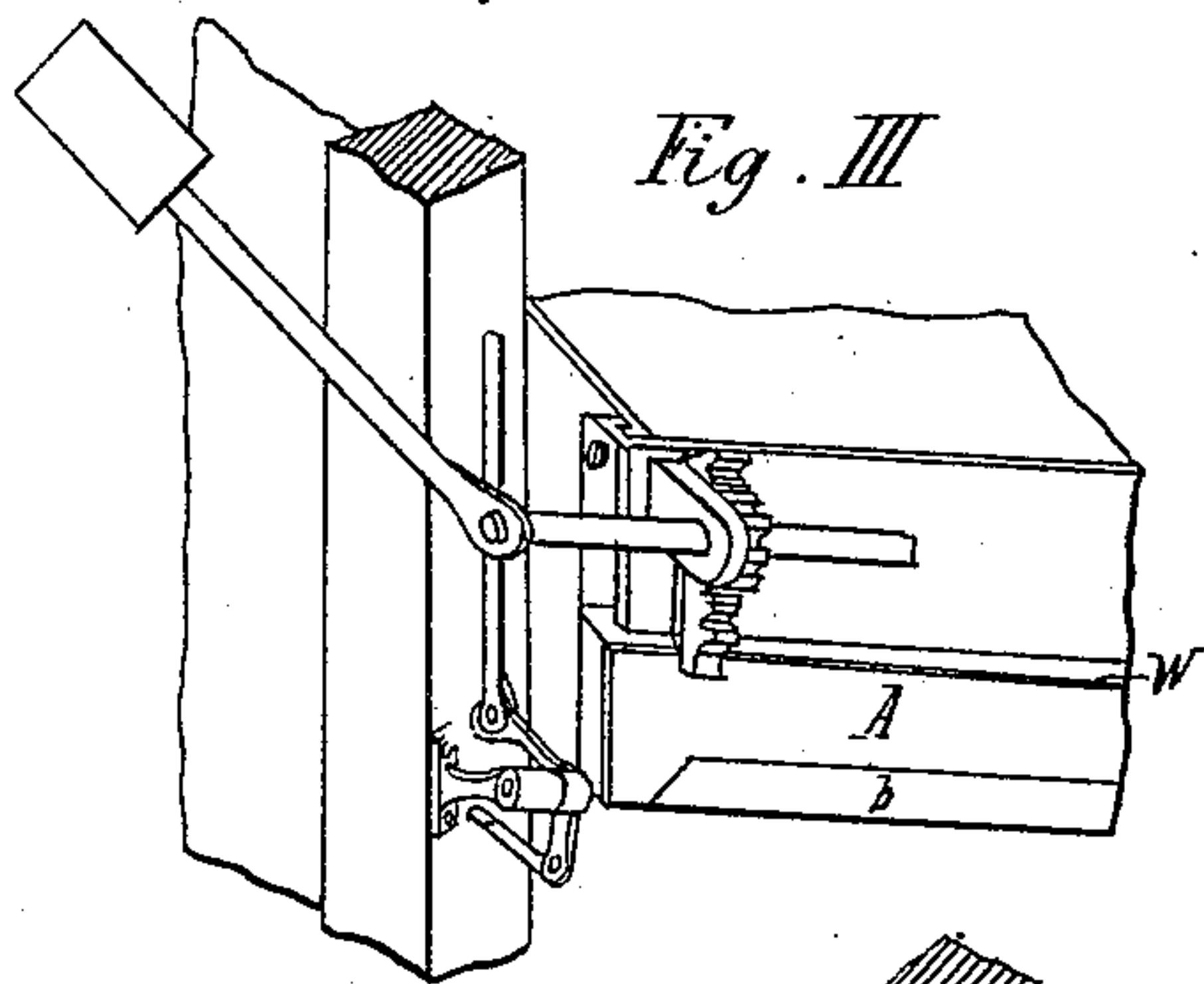


Fig. III

Fig. I.

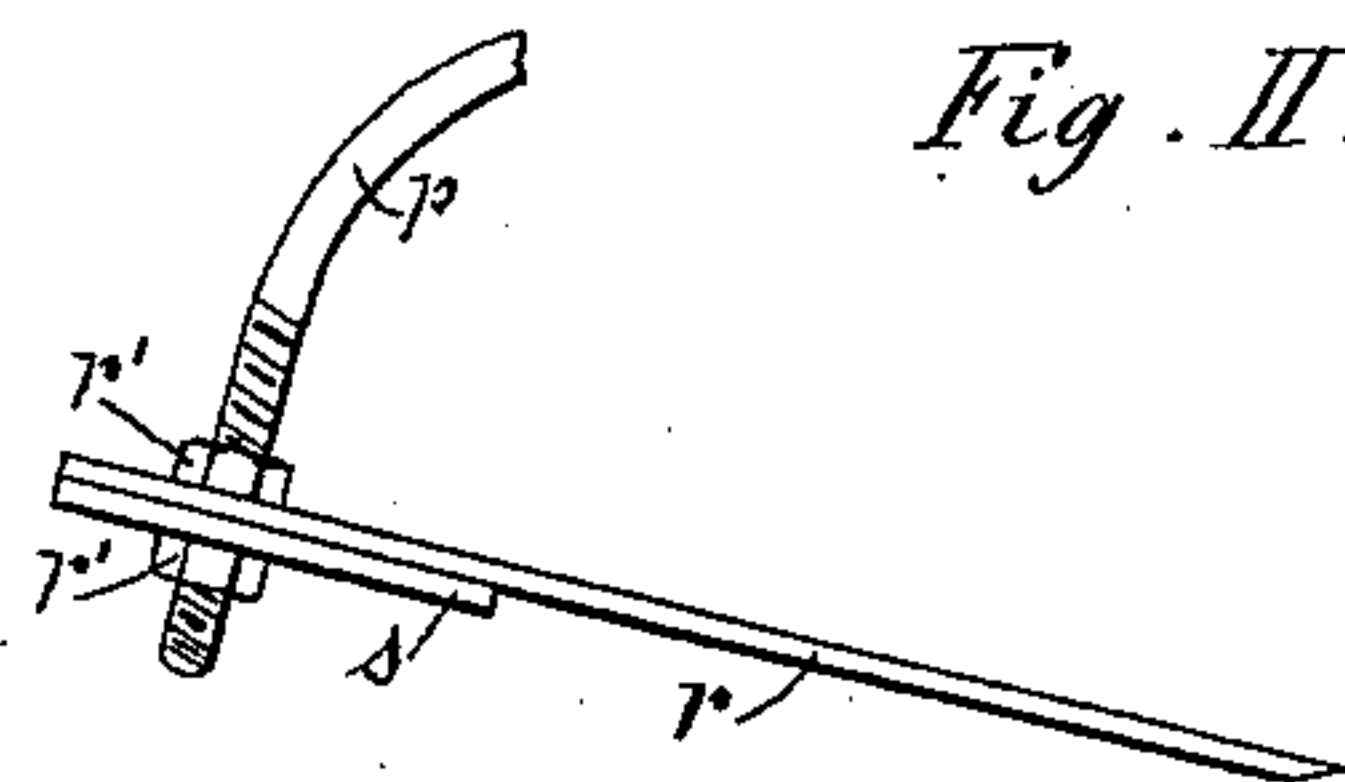
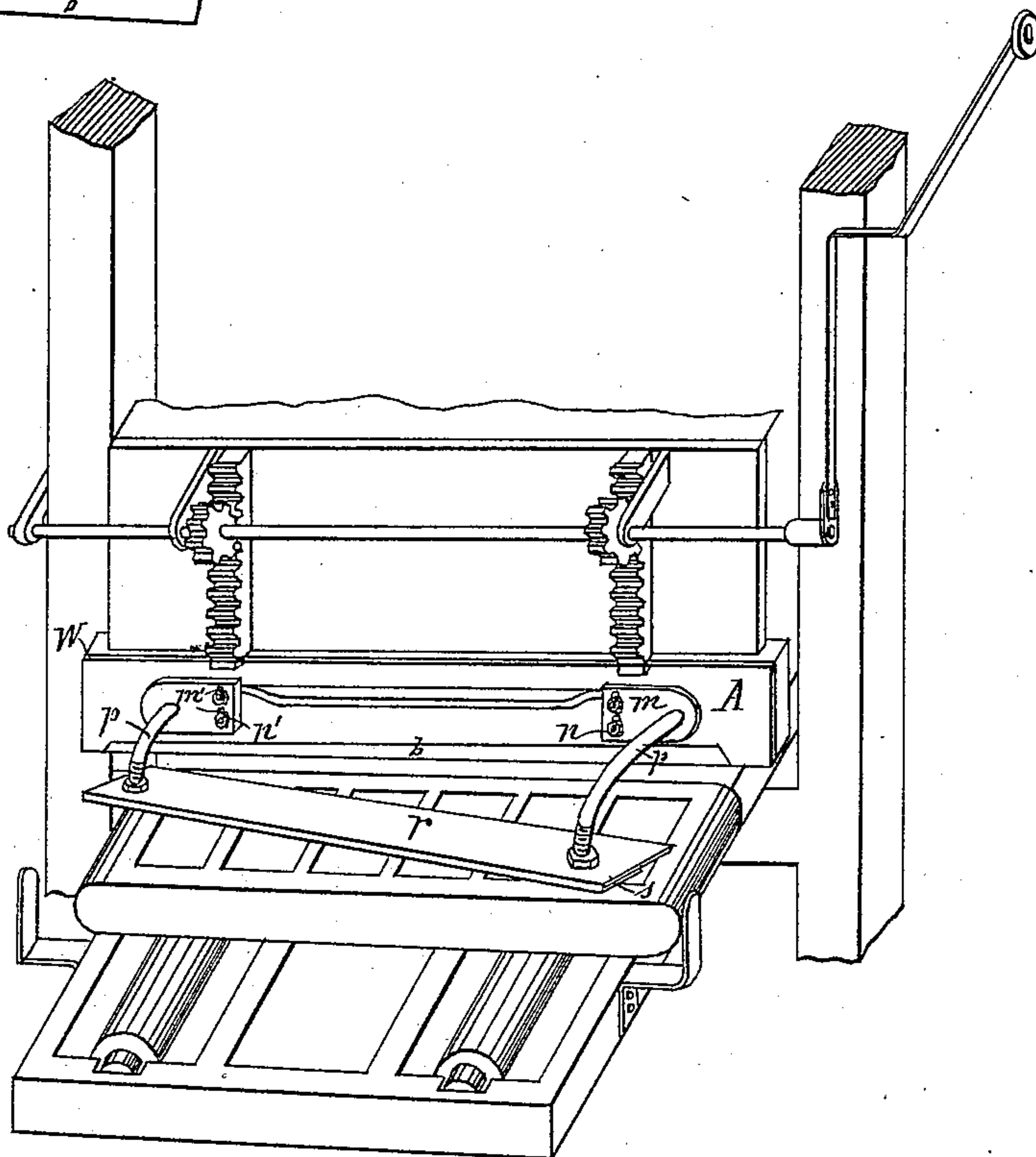


Fig. II.

WITNESSES:

Geo. A. Lane
Hans G. Helm

INVENTOR

Henry Martin

BY

H. M. R. Gerhart
ATTORNEY

UNITED STATES PATENT OFFICE.

HENRY MARTIN, OF LANCASTER, PENNSYLVANIA.

BRICK-MACHINE.

SPECIFICATION forming part of Letters Patent No. 346,931, dated August 10, 1886.

Application filed November 11, 1885. Serial No. 182,409. (No model.)

To all whom it may concern:

Be it known that I, HENRY MARTIN, a citizen of the United States, residing at Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Brick-Machines, of which the following is a specification.

My invention relates to an improvement in a brick-machine, for which I have obtained a number of grants of Letters Patent.

The patent upon which my device is more particularly an improvement is No. 300,096, dated June 10, 1884. In the arrangement shown in that patent the front plate, W, of the gate A has a steel or hard-metal blade, *b*, fastened to it, which serves more thoroughly to strike the surplus clay from the top of the mold. The blade *b* is vertical and set at right angles with the direction of the movement of the molds as they are discharged. It is found that after the molds pass out from under the blade *b*, the clay in them swells upward, making that surface uneven and irregular, and this happens to the greatest extent when least desirable—viz., with the stiffest clay. Heretofore it has been customary to cut this swelled clay from the molds by hand as they passed from the machine; but this could not be done perfectly owing to the stiffness of the clay and the irregularity of the pressure on the hand-knife.

The object of my present invention is to perform this labor automatically, and this I accomplish by means of the mechanism illustrated in the accompanying drawings, in which—

Figure I is a perspective view of my device; Fig. II, an end view of the blade as used, and Fig. III a perspective view of the old machine on the reversed end of that shown by Fig. I.

Similar letters refer to similar parts in both views.

A vertically-adjustable plate, *m*, is secured to the front of each side of the gate A by means of projecting screws *n*, passing through slots *m'* in the said plates, and the set-nuts *n'*. From each of these plates there projects an arm, *p*, the outer ends of which curve downward and outward, and have screw-threads cut therein, which sustain the cutting-blade *r*,

through which they pass, which blade is held in position and each end regulated independently by means of nuts *r'*, on each side of the blade. The arms are of unequal length, by reason of which the blade is held at an angle, with reference to both the front of the machine and the top of the molds, vertically and horizontally, both angles being varied at pleasure by the adjusting-nuts *r'*. This arrangement of the blade gives to it a cutting action as the molds pass beneath it, and also enables it to meet and pass over any irregularities that may be encountered in the upper edges of said molds. The blade itself is made of material sufficiently thin to permit it to give and bend in passing over the irregularities mentioned, but at the same time sufficiently stiff to cut all projecting clay from the top of the molds.

In order to stiffen the upper edge of the blade, I re-enforce it by means of a bar, *s*, running along its outer surface.

As will be readily seen, the vertical adjustment of the blade is made by means of the slots in the plates *m*, so as to be made to conform to various-sized molds.

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

1. The combination, in a brick-machine, of adjustable plates *m*, secured to the front of the machine, and arms *p*, supporting a blade for cleaning clay from the upper surface of the molds, substantially as specified.

2. The combination, in a brick-machine, of plates secured to said machine, and arms supporting a blade for cleaning clay from the upper surface of the molds, substantially as specified.

3. The combination, in a brick-machine, of arms of unequal length attached to said machine, having a blade adjustably secured thereto for cleaning the clay from the upper surface of the molds with the said blade, substantially as specified.

4. The combination, in a brick-machine, of arms attached to said machine and supporting a blade for cleaning the clay from the upper surface of the molds, with said blade held at an angle with the top of said mold, substantially as specified.

5. The combination, in a brick-machine, of arms attached to said machine and supporting a blade for cleaning the clay from the upper surface of the molds with said blade, substantially as specified.
6. The combination, with a brick-machine, of a blade supported in front of said machine for cleaning the clay from the upper surface of the molds, substantially as specified.

HENRY MARTIN.

Witnesses:

W. J. FORDNEY,
WM. R. GERHART.