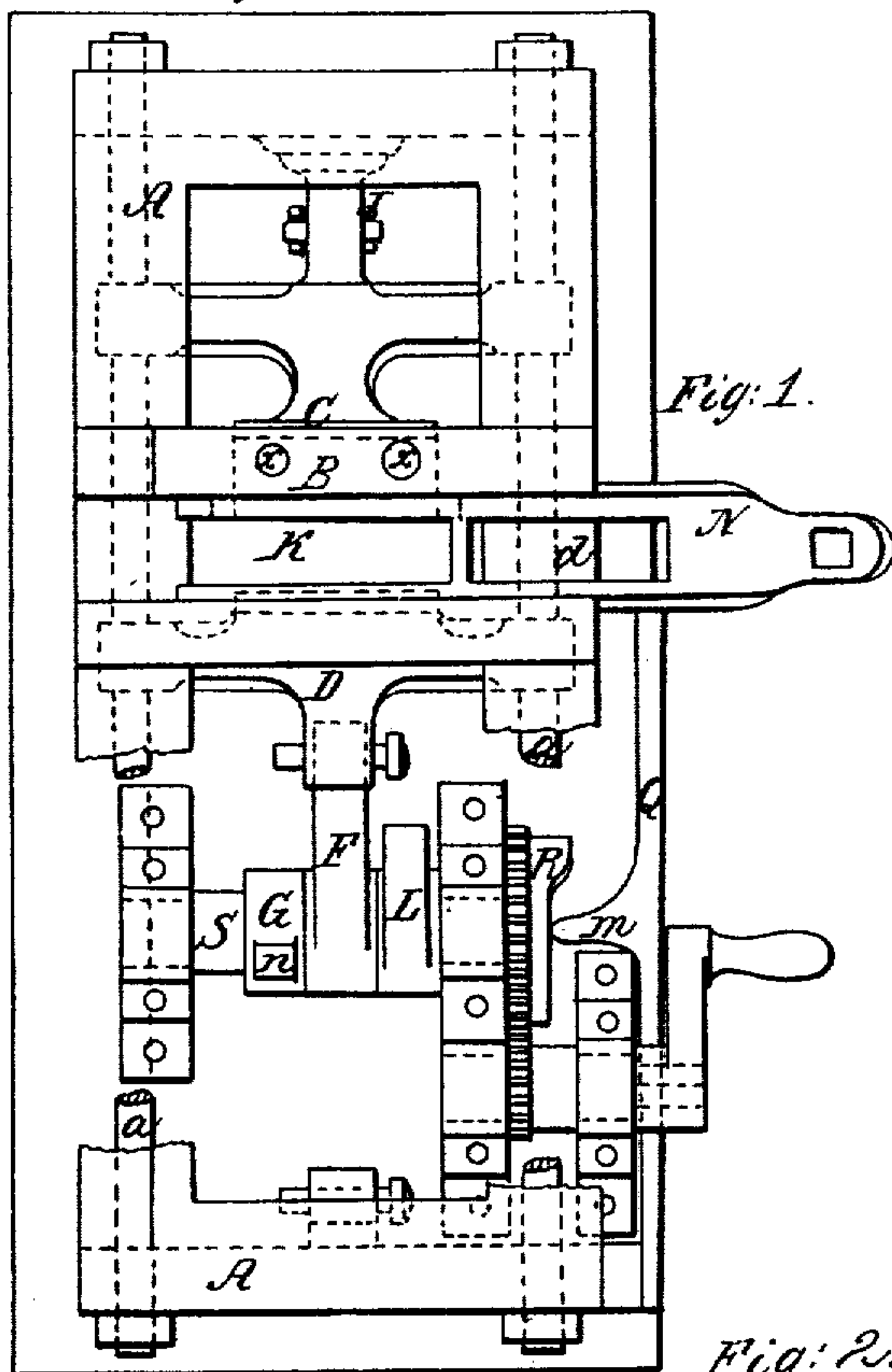


*H. Maurer.*

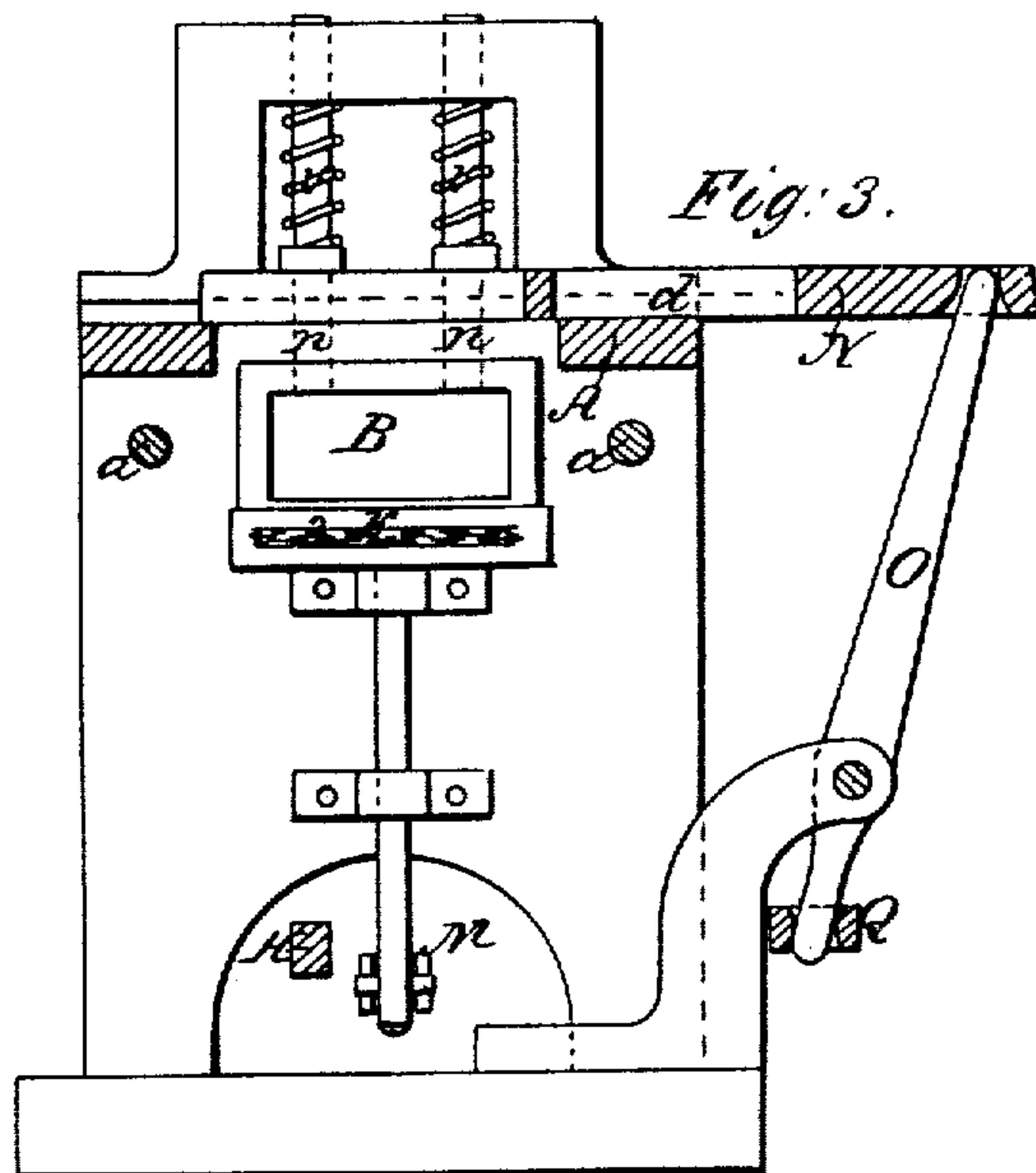
*Repressing Bricks.*

*Nº 91,856.*

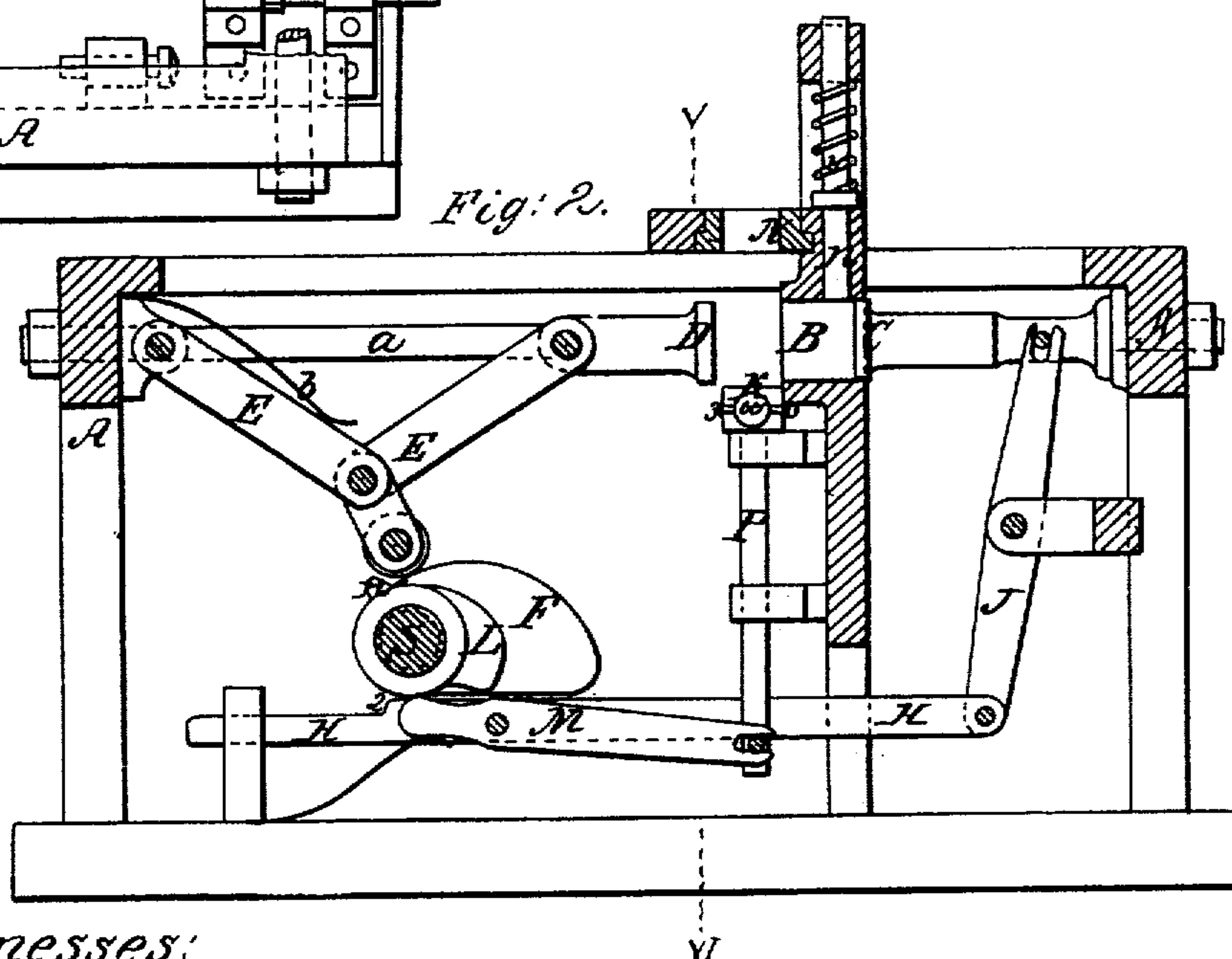
*Patented Jun. 29, 1869.*



*Fig: 1.*



*Fig: 3.*



*Fig: 2.*

*Witnesses;*  
*Henry C. Rander*  
*Louis Stearns*

*Inventor;*  
*H. Maurer*



# United States Patent Office.

HENRY MAURER, OF NEW YORK, N. Y

Letters Patent No. 91,856, dated June 29, 1869.

## IMPROVED MACHINE FOR RE-PRESSING BRICKS

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, HENRY MAURER, of New York, in the county and State of New York, have invented new and useful Improvements in Machines for Re-Pressing Bricks; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon.

Figure I represents a top view or plan of my improved machine;

Figure II is a longitudinal section of the same; and

Figure III is a cross-section at line V VI in Fig. II.

Similar letters represent similar parts.

The nature of my invention consists in the arrangement of suitable escape-openings in the mould-box, wherein the formed bricks are re-pressed, for the purpose of receiving any of the surplus material which may be in the original or first-made brick, insuring thereby the regularity of the bricks when the same are re-pressed.

In the accompanying drawings—

A represents the framing of the machine, the front and back of which are strengthened and securely fastened together, by bolts *a a*, situated in the line with the centre of the mould-box B.

This mould-box is arranged near the middle, in the framing A, and into which a piston or platen, C, is fitted, supported and guided on the bolts *a a*.

Another piston or platen, D, likewise guided on the bolts *a a*, is arranged to enter the front of the mould-box B.

This platen D is connected to a toggle-joint, E, operated by a cam, F, placed on the revolving shaft S, whereby this platen D is moved into the mould-box B, to act upon the brick to be re-pressed.

A spring, *b*, acting upon one of the levers forming the toggle-joint E, will cause said joint to be moved or pressed downwards, for the purpose of drawing the platen D out of the mould-box B, after the brick has received the desired amount of pressure, and when the toggle-joint is relieved from the action of the cam F.

As soon as the platen D is withdrawn out of the mould-box B, a projection, *n*, on a cam, G, on the shaft S, comes in contact with a projection, 2, on the lever H, which latter is connected, through the lever J, with the platen C, in such a manner as to move said platen C further into the mould-box B, and thus push the pressed brick out of said mould-box upon a block or table, K, situated in the front of said mould-box.

When the pressed brick has been moved upon the block K, the cam L on the shaft S operates the lever M, connected with the guide-rod P of the block K,

and moves thereby this block K, with the pressed brick, upward in a line with the top face of the frame A.

On the top of the frame A, above the block K, a slide, N, is arranged, with an open slot on its forward end, and an opening, *d*, capable of receiving and passing through it a common brick.

This slide is connected, through the lever O, with a lever, Q, which latter is provided with a projection, *m*, working against the face of an eccentric disk, R, (see Fig. I,) fast on the end of the shaft S, and through which motion is communicated to said slide N, as soon as the block K has been moved on a line with the top of the frame, whereby the pressed brick is removed from the top of the block K, and the unpressed brick, previously placed into the opening *d*, in the slide N, is left upon the top of said block.

The block K is then moved downward, so as to bring the unpressed brick opposite the opening in the mould-box B, when the toggle-joint E is acted upon by the cam F, causing thereby the platen D to be moved toward and into the mould-box B, whereby the unpressed brick is moved from the top of the block K, pushed into the mould-box, and then receives there the desired amount of pressure.

Through the sides of the mould-box B openings *x* are made, (only two are shown in the drawings, through the top,) into which pistons *n* are fitted, acted upon by powerful springs *v*.

While the bricks are re-pressed in the mould-box B, any excess of material which may be in the brick, as first moulded, will escape into these openings, by pushing back the pistons *n* in the same, and prevent thereby any disarrangement or breakage of the machinery, at the same time insuring the regularity of the bricks.

When the platen C is operated so as to push the pressed brick out of the mould, the springs *v* acting upon the pistons *n* in the holes *x*, will force this material out of the holes again, after the platen C has passed the holes, and the material thus thrown into the mould-box will be cleared out of the same by the backward motion of the platen C.

I find that in practice, two holes through the top of the mould-box, as represented in the drawings, are sufficient in most cases; but any number, similarly arranged, may be made in the sides and bottom, as may be found necessary and desired.

The block or table K is made hollow, so as to form a cavity, *w*, to receive oil or any other lubricating-substance.

This cavity is connected by suitable holes, with pieces of cloth, sponge, or its equivalent 3 3, arranged on each side of the block K, which comes in contact with the faces of the platen D and C during the upward and downward motion of said block K, and oil

or grease thereby these faces, after each operation of re-pressing a brick.

Into this cavity *w* a suitable piston may be fitted, acted upon by a spring, for the purpose of forcing out the oil or other substance.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The perforations *x* through the stationary side or sides of the mould-box B, provided with pistons *n*, acted upon by suitable springs *v*, and operating in

conjunction with the solid plungers C D, in the manner and for the purpose herein set forth.

2. The combination of the mould-box B, platens C and E, block or table K, provided with cavity *w*, and slide N, when arranged and operated in the manner and for the purpose substantially as described.

HY. MAURER.

Witnesses:

HENRY E. ROEDER,  
LOUIS STUMM.