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Patented July 15, 1902.

J. H. KNIGHT.

MACHINE FOR LAYING BRICKS FOR BUILDING PURPOSES.

(Application filed Dec. 27, 1901.)

(No Model.)

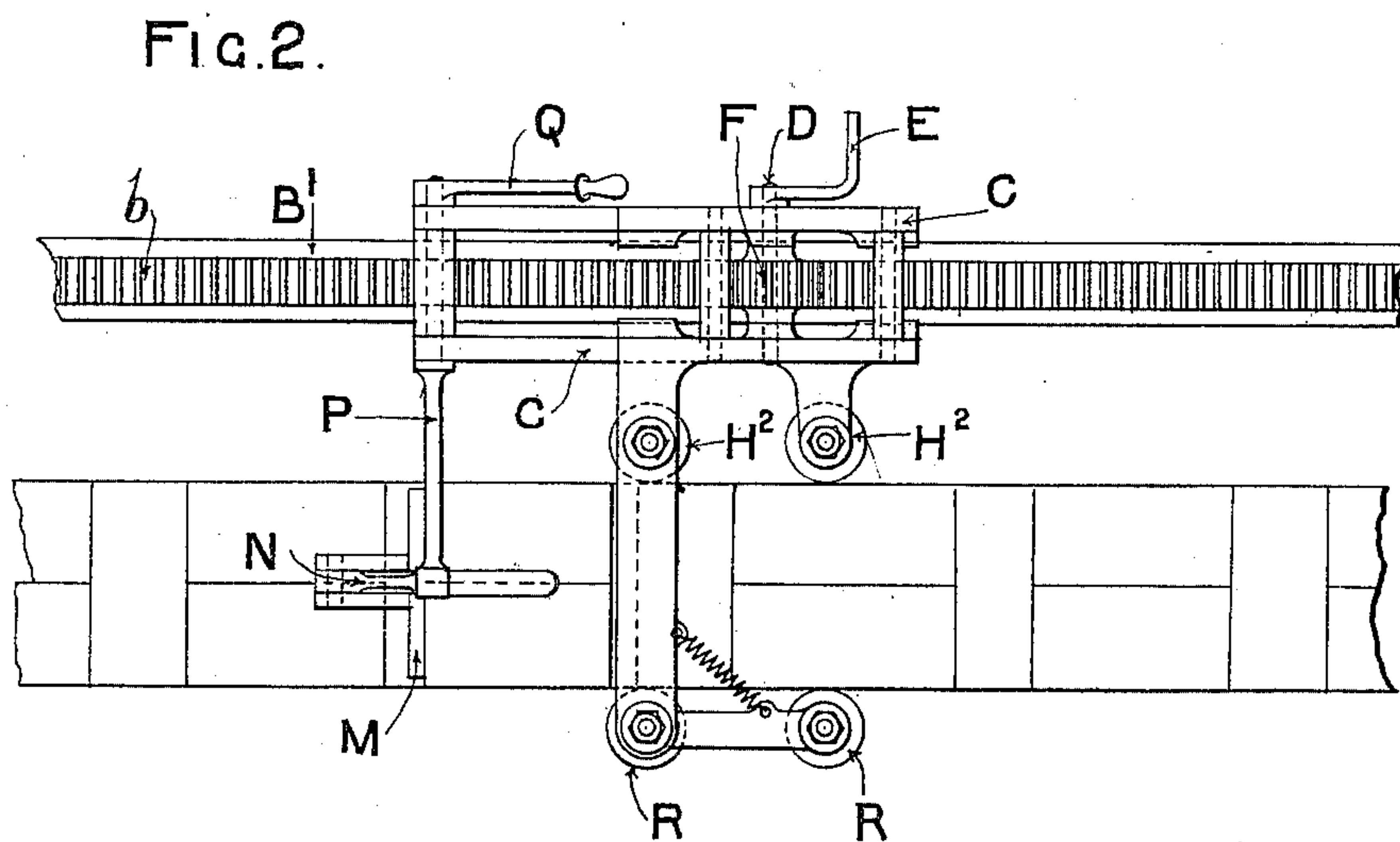
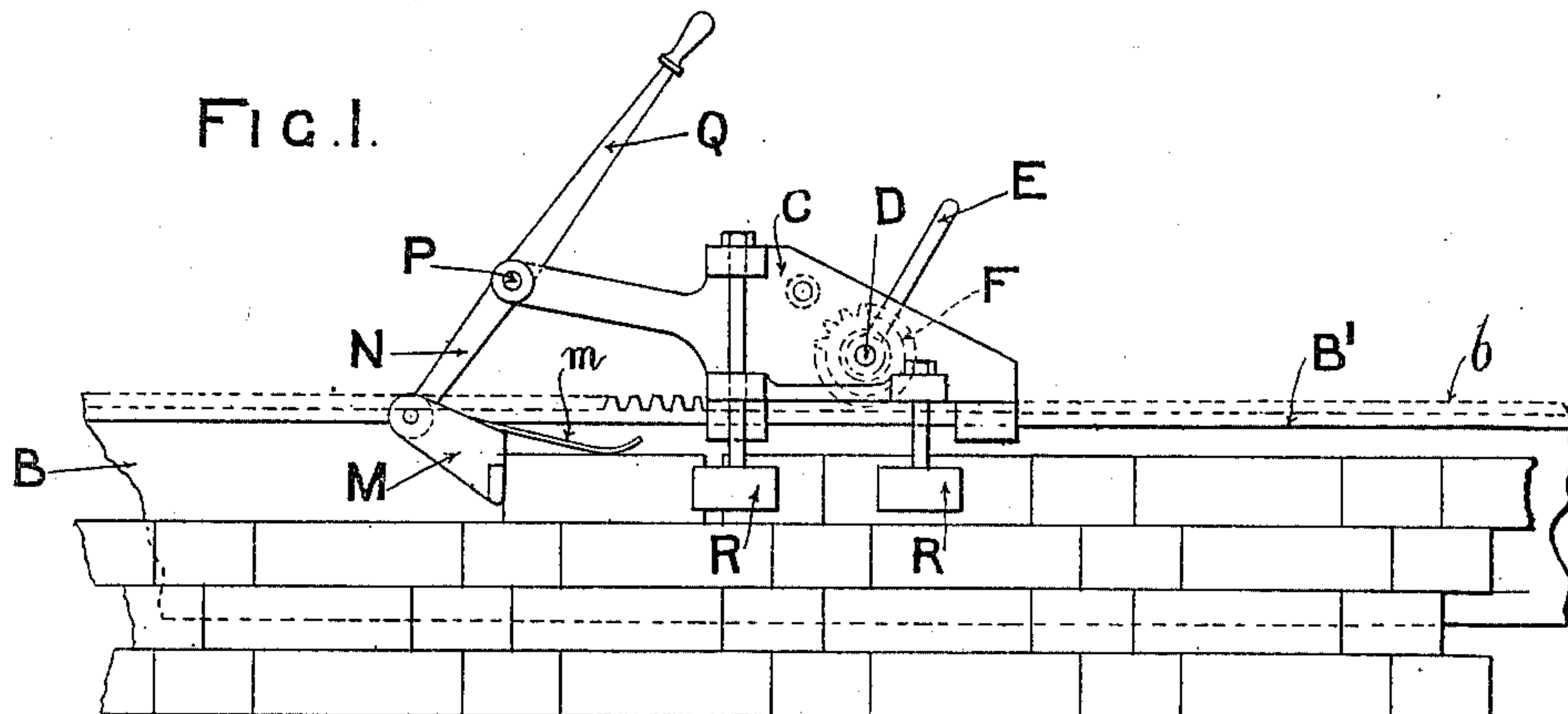
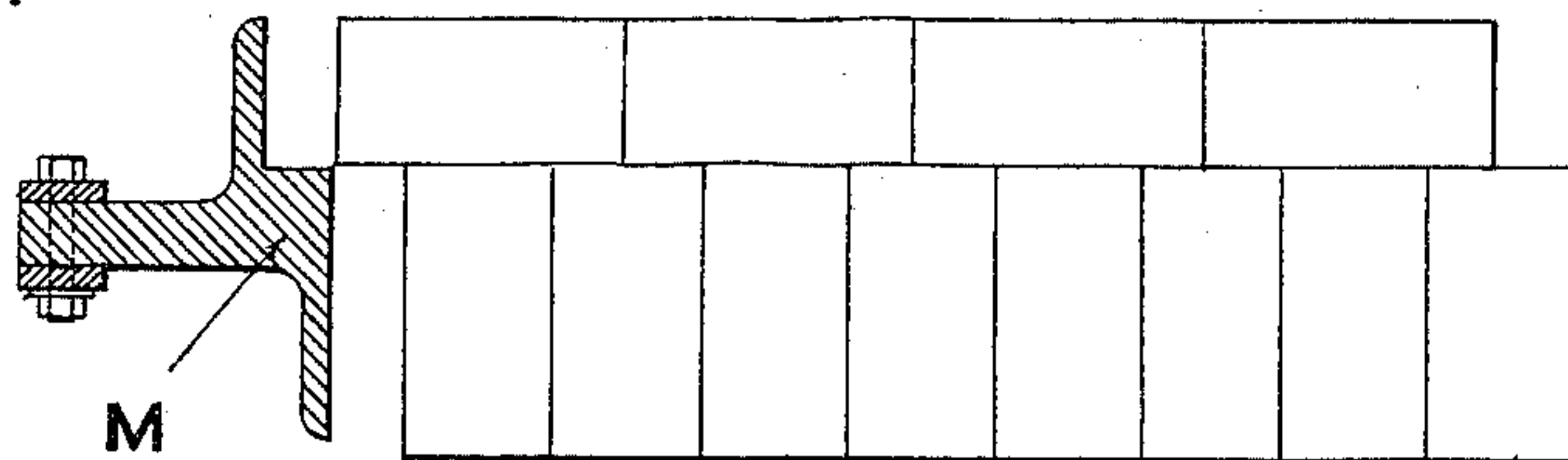


FIG. 3.



WITNESSES.

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MACHINE FOR LAYING BRICKS FOR BUILDING PURPOSES.

SPECIFICATION forming part of Letters Patent No. 704,648, dated July 15, 1902.

Application filed December 27, 1901. Serial No. 87,488. (No model.)

To all whom it may concern:

Be it known that I, JOHN HENRY KNIGHT, a subject of the King of Great Britain, residing at Barfield, near Farnham, in the county of Surrey, England, have invented a new and useful Improvement in Machines for Laying Bricks for Building Purposes, (for which I have applied for Letters Patent in Great Britain, numbered 23,084 and bearing date the 18th day of December, 1900,) of which the following is a full and complete specification.

This invention relates to an improvement in the apparatus for laying bricks for building purposes for which Letters Patent No. 669,220, bearing date the 5th day of March, 1901, were granted to me; and it consists of an improved feeding device by means of which the vertical joints in the brickwork can be more easily adjusted and the thickness or width of the same regulated.

In the accompanying drawings, which illustrate this invention, Figures 1 and 2 are views in side elevation and plan, respectively; and Fig. 3 is a view in plan showing a modification.

Throughout the views similar parts are marked with like letters of reference.

In place of the feeding-rollers or revolving arms specified in my prior patent aforesaid I employ a presser M, carried by a lever N, fixed on a rocking shaft P, mounted in suitable bearings formed on or carried by an extension of the traversing frame C, which is constructed and adapted to operate as specified in my patent aforesaid. Motion is imparted to the rocking shaft by a hand-lever Q. The operative face of the presser M is shaped according to the disposition of the bricks in the wall. If the wall is to be built with the Flemish bond, as shown in Figs. 1 and 2, the face of the presser M is flat; but if the wall is to be built with the English bond the face of the presser is shaped as shown in Fig. 3. When the traversing frame C is pushed forward, the presser M, by reason of its inclined under side, slides up onto and over the brick or bricks being fed to it. The hand-lever N is then pressed forward in the direction of the arrow aforesaid, which causes the

presser M to force the brick or bricks home against the last-laid brick or bricks.

I sometimes provide the presser with a tail-piece *m*, which as the presser moves forward rests on the top of the last-laid brick or bricks, and thus prevents the presser from dropping down onto the mortar laid on the last course.

The beam B, rack *b*, plate B', axle D, crank-handle E, and cog-wheel F present novel features and may be of the construction specified in my prior patent.

To insure the bricks being laid in line on the face of the wall, I may either employ a guide-board or straight-edge, as described in my prior patent, No. 669,220, or I may employ guide-rollers, such as H², as shown in Fig. 2; but in either case I employ on the other side of the wall one or more rollers R, mounted on or carried by a spring-controlled arm pivoted to the frame C and adapted to press the brick up against the guide board or roller on the face side of the wall, as shown by Figs. 1 and 2.

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

1. In a machine for laying bricks comprising an adjustable guide arranged parallel with and in close proximity to the position of the wall to be built, a frame mounted on the said guide, and means to cause it to positively traverse the same including an axle carried by the frame and rotated by a handle, a brick-feeding device consisting of a presser pivoted to a lever carried by a rocking shaft mounted in bearings formed on or carried by an extension of the said traversing frame and a hand-lever for operating the same, the arrangement being such that the presser on the forward travel of the machine slides over and engages the brick or bricks fed to the machine and presses them against the last-laid brick or bricks, as set forth.

2. A machine for laying bricks consisting of an adjustable guide B arranged parallel with and in close proximity to the position of the wall to be built, of a frame C mounted on the said guide, of means to cause it to positively traverse the same including an axle D carried by the frame C and rotated by a han-

dle E, of a brick-feeding device consisting of a presser M pivoted to a lever carried by a rocking shaft P mounted in bearings formed on or carried by an extension of the said
5 traversing frame C and a hand-lever Q for operating the same, the arrangement being such that the presser on the forward travel of the machine slides over and engages the brick or

bricks fed to the machine and presses them against the last-laid brick or bricks, and of 10 side guides H² to keep the bricks square and level, as set forth.

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Witnesses:

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JAMES A. DAVIES.