(No Model.)

J. F. STEPHENSON.

TILE MACHINE.

No. 263,823. Patented Sept. 5, 1882.

Fig. 1.

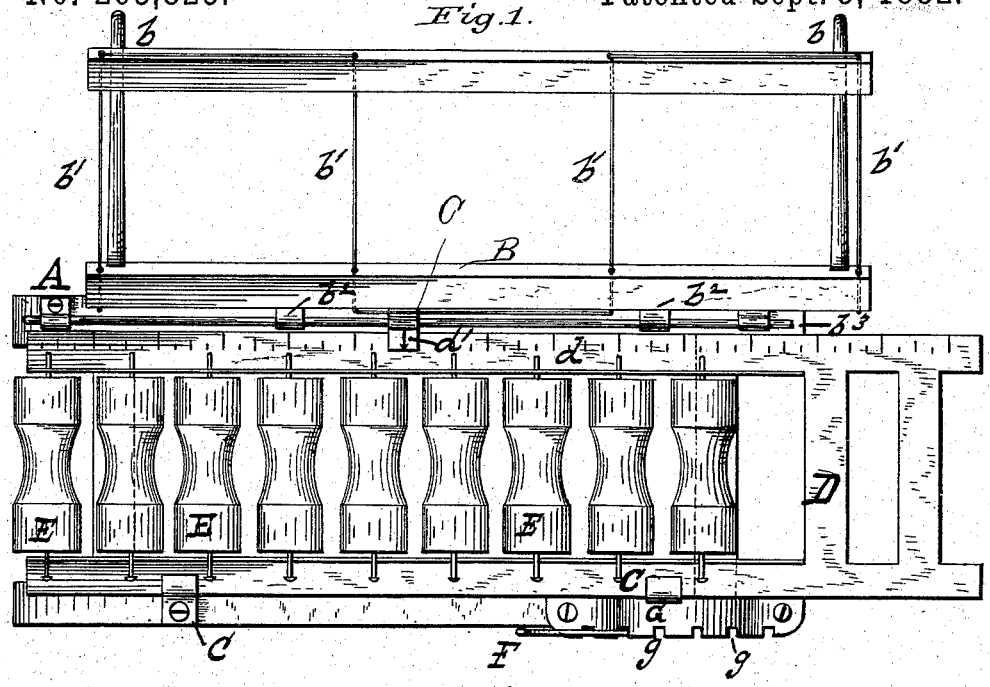
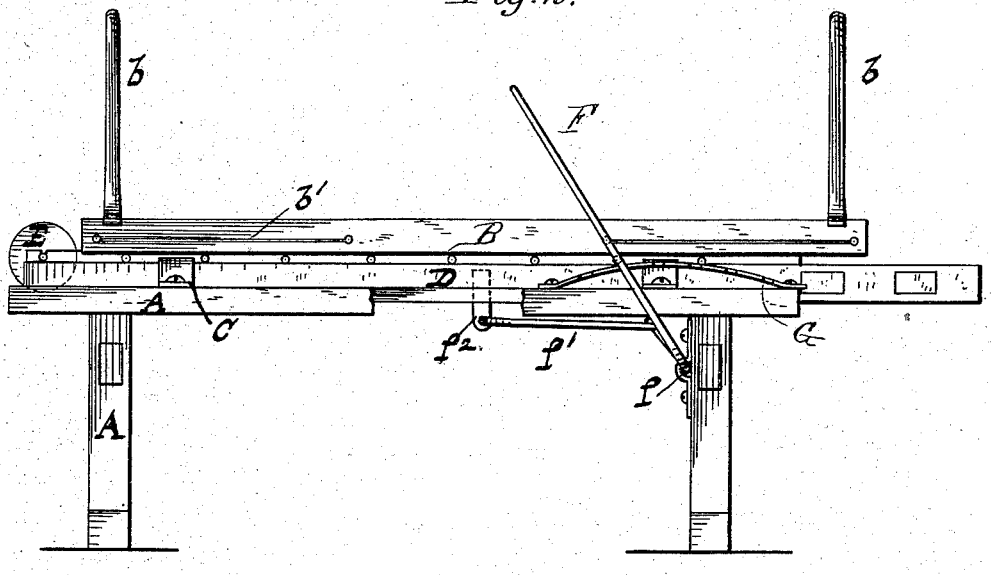


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN F. STEPHENSON, OF EDGAR, ILLINOIS.

TILE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 263,823, dated September 5, 1882.

Application filed June 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. STEPHENSON, a citizen of the United States of America, residing at Edgar, in the county of Edgar and State of Illinois, have invented certain new and useful Improvements in Tile-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to mechanism for severing the continuously-formed products of a brick or tile machine into separate articles; and it consists in certain features hereinafter described, and specifically set forth in the claim.

Figure 1 is a plan, and Fig. 2 a side elevation, with portions removed, of a machine embodying my invention.

A represents a frame-work adapted to support the operative parts of the machine, and B represents a hinged frame provided with arched cross-pieces *b* and cutting-wires *b'*, all of the usual construction. This frame is provided with hinges b^2, which are adapted to oscillate about and slide upon the rod b^3, secured to the frame A, as shown, whereby the cutting-frame just described may be opened and closed, raised and lowered, at different points relatively to the frame of the machine.

At C are secured to the top of the frame cleats, which project above and over a sliding frame, and upon one of the longitudinal beams thereof is a graded scale, *d*, and one of the cleats C is provided with an indicating mark, *d'*.

Within the frame is a series of rollers, E, which are grooved centrally, as shown.

By the construction described it will be seen that the frame D is adapted to slide longitudinally within and upon the frame-work, and the means for sliding the same consist of a lever, F, pivoted to the frame-work at *f*, and connected by the rod *f'* to the stud f^2, which is secured to the frame D, and by means of the arched plate G, having notches *g* at its edge, the distance to which the frame D is moved may be determined; or, in other words, the frame D may be moved as desired, and as indicated by the scale *d* and indicator *d'*.

This being the construction of the machine, its operation is as follows: As the clay is delivered from the machine in the form of a continuous brick or tile, as is common in the art, it often occurs that, even where the cutting-frame B is adapted to slide upon the hinged rod, there is more or less waste of material, in that a portion of the material severed into bricks or tiles is less in length than the entire brick or tile.

By my construction the point of severance of the preceding number of articles, bricks, or tiles may be brought directly over the space between any two of the rolls E by adjusting the table during its reception of the continuous tile or after the feed of the same has ceased, and then independently sliding the cutter-frame so that the end severing-wire, *b'*, shall coincide with the leading end of the continuous tile. The cut is made without waste, and a successive length of continuous tile is fed upon the rolls, and by a slight adjustment of the bed the last cut—that is, the leading end of the continuous tile—is caused to project beyond the roller and over the space between two of the rolls, and thus the cutting-frames brought to position as before, and a second series of articles is produced without waste.

Having described my invention and its operation, what I claim, and desire to secure by Letters Patent, is—

The combination of the frame A, provided with the cleats C, one of which bears the indicating mark *d'*, with the frame D, provided with the scale *d*, the stud f^2, rod *f'*, lever F, and the notched plate G, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN F. STEPHENSON.

Witnesses:
JOSEPH CURRY,
JAMES GLASS.