

(No Model.)

2 Sheets—Sheet 1.

J. E. MARQUARDT.  
BRICK OR TILE MACHINE.

No. 508,230.

Patented Nov. 7, 1893.

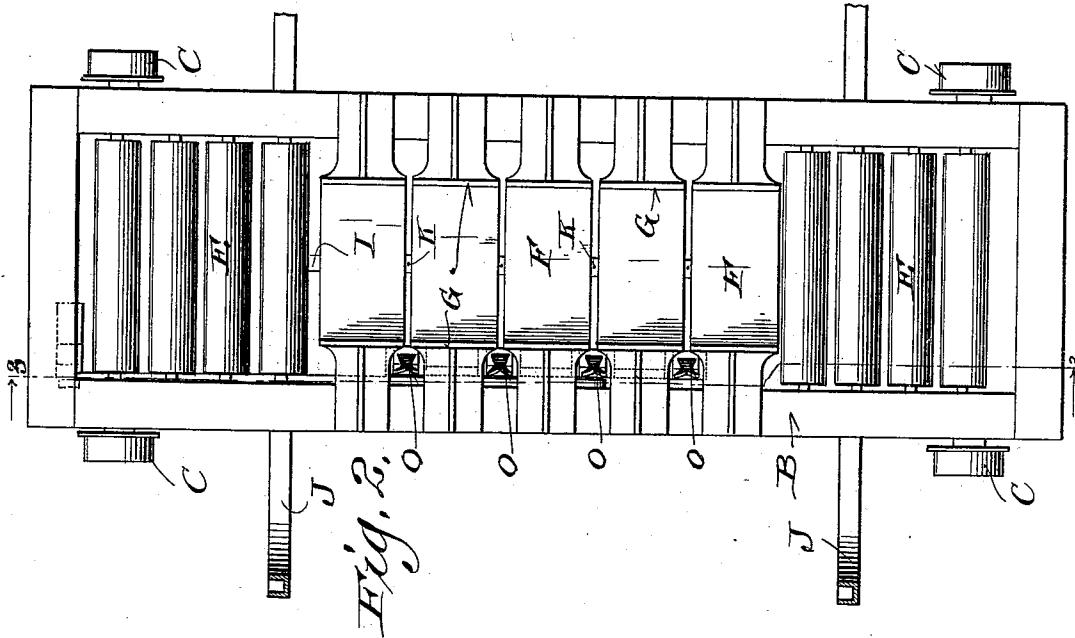
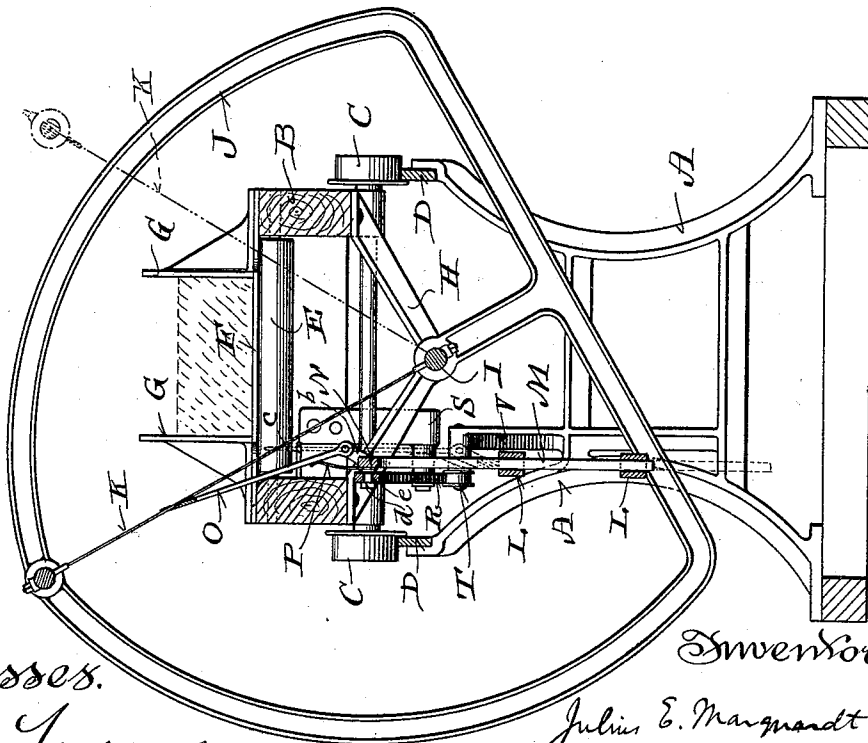


Fig. 1.



Witnesses.  
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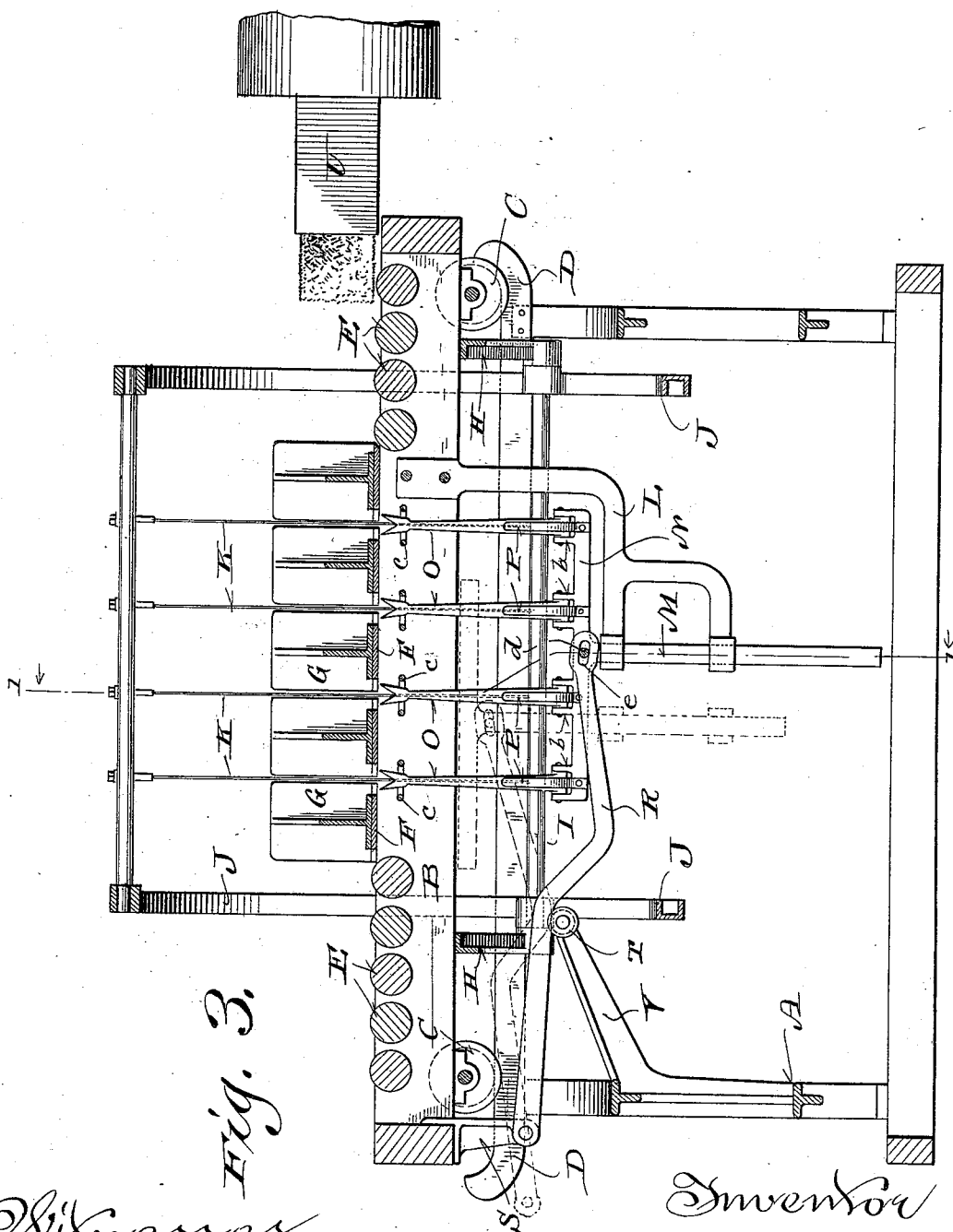


Fig. 3.

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# UNITED STATES PATENT OFFICE.

JULIUS E. MARQUARDT, OF EDGAR, WISCONSIN.

## BRICK OR TILE MACHINE.

SPECIFICATION forming part of Letters Patent No. 508,230, dated November 7, 1893.

Application filed July 31, 1893. Serial No. 481,949. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS E. MARQUARDT, a citizen of the United States, and a resident of Edgar, in the county of Marathon, and in the State of Wisconsin, have invented certain new and useful Improvements in Brick or Tile Machines; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide for an automatic cleaning of the cut-off wires, belonging to brick or tile machines, subsequent to each operation of said wires; and to this end the aforesaid invention consists in certain peculiarities of construction and combination of parts hereinafter specified with reference to the accompanying drawings and subsequently claimed.

In the drawings: Figure 1 represents a transverse section on line 1—1 of Fig. 3, illustrating my improvement as it appears in connection with a type of brick or tile making machine (known to the trade) after an operation of the cut-off wires; Fig. 2, a plan view of the machine with the rocking-frame for the cut-off wires partly broken away and in horizontal section, and Fig. 3, a vertical longitudinal section on line 3—3 of the preceding figure.

Referring by letter to the drawings A represents a frame, B a carriage having wheels C that travel on rails D forming parts of the frame. Journalled in the carriage are two series of parallel transverse rollers E and intermediate of these series of rollers is a series of supporting plates F, the latter being at certain intervals apart and having vertical shields G arranged in pairs thereon. Depending from the sides of the carriage are hangers H for a longitudinal rock-shaft I that carries a frame J in which a series of cut-off wires K is stretched.

The parts thus far described are comprised in a brick or tile machine known to the trade and constitute no part of my invention, except so far as they combine with a means for cleaning the cut-off wires, subsequent to an operation of the latter, as will be hereinafter more fully described.

Depending from one side of the carriage is a bracket L provided with guides for a vertical shank M of a horizontal bar N, the latter being disposed in the longitudinal direction

of said carriage and provided with a series of offset ears *b* arranged in pairs. Pivottally connected to each pair of the aforesaid ears is one end of a blade O, the latter being opposed by a flat spring P fast on the bar N, and the other end of the blade is notched and normally in the path of one of the aforesaid cut-off wires. Each of the blades O engages a staple like stop *c* on the carriage and the tension of the springs P is such as to keep said blades normally in a vertical position against the stops. A lateral stud *d* on the blade-carrying bar M engages the slotted end *e* of a cam-lever R pivottally connected to a hanger S that depends from the aforesaid carriage, and this lever travels on an anti-friction roller T supported by a bracket V on the machine-frame.

In practice clay is fed from a pug-mill U to the machine above specified and cut into bricks by means of the wires that are stretched in the rocking-frame forming part of said machine, these wires passing between the carriage plates and shields.

From the foregoing description it will be apparent that when the rocking-frame is swung over to bring said wires from the dotted to full line position shown in Fig. 1, they will enter the notched ends of the blades O, and a movement of the carriage in the proper direction will cause the lever R to lift and thereby elevate the bar N, thus causing said notched ends of the blades to ride up on the aforesaid wires and scrape off any clay that may adhere upon the same, there being a yield of the springs P when this operation takes place. On the return movement of the carriage there is an automatic descent of the lever R and blade-carrying bar M, while at the same time the springs P act to swing the blades N on their pivots to the vertical position shown by dotted lines in Fig. 1.

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

1. In a brick and tile machine, the combination of the carriage and cut-off wires with a vertically reciprocative carrier on the carriage, scrapers pivottally connected to the carrier in the paths of said wires, and springs opposing outward movement of the scrapers, substantially as set forth.

2. In a brick and tile machine, the combination of the carriage and cut-off wires with a bracket depending from the carriage, a horizontal bar having a vertical shank loose in  
5 the bracket, scrapers connected at one end to the bar and having their other ends in the paths of said wires, springs opposed to outward movement of the scrapers, a cam-lever connecting said bar and carriage, and a device  
10 arranged on the machine frame to bear against the lever, substantially as set forth.

3. In a brick and tile machine, the combination of the carriage and cut-off wires with a vertically reciprocative carrier, scrapers

pivottally connected to the carrier in the paths  
15 of said wires, springs opposing movement of the scrapers in one direction, and stops arranged to limit movement of said scrapers incidental to an expansion of the springs, substantially as set forth. 20

In testimony that I claim the foregoing I have hereunto set my hand, at Edgar, in the county of Marathon and State of Wisconsin, in the presence of two witnesses.

JULIUS E. MARQUARDT.

Witnesses:

JOHN BRASCH,  
HUGO PETERS.