P. L. Sword,

Tile Machine,

No. 40,149. Patented Sept. 29, 1863.

Fig. 1.

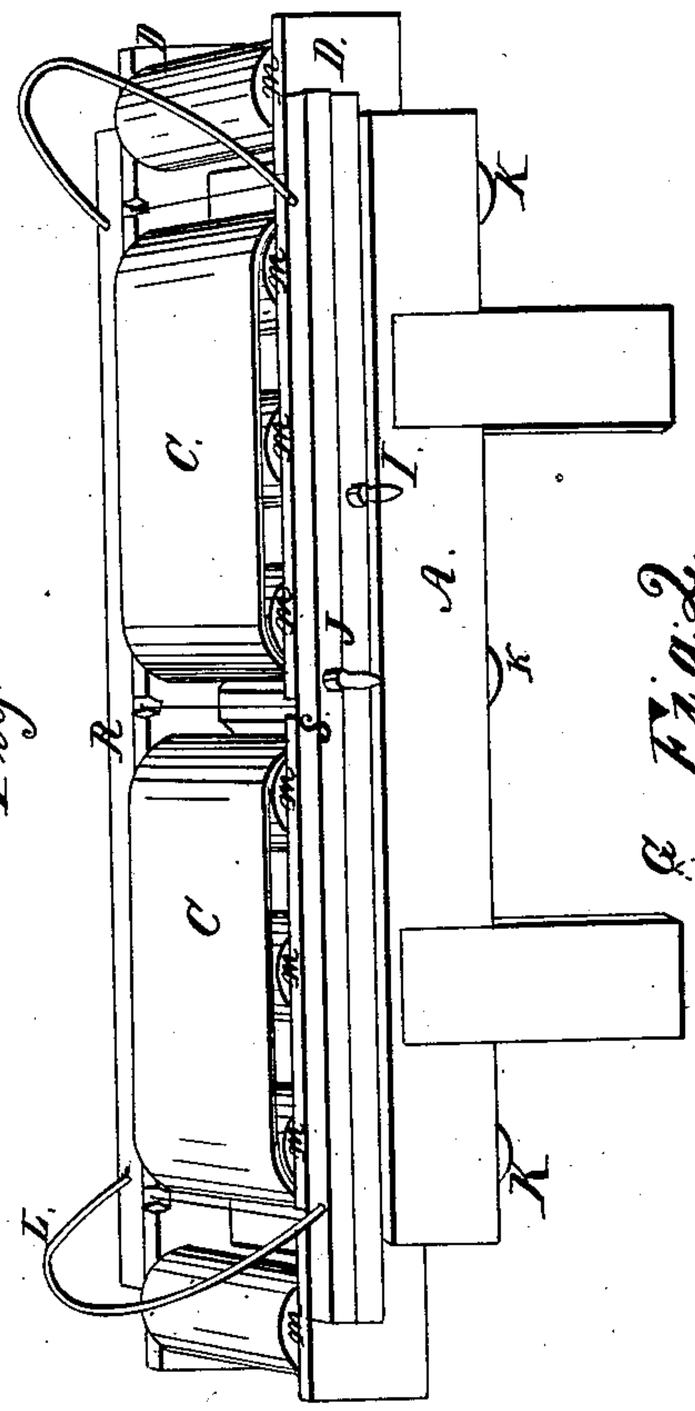
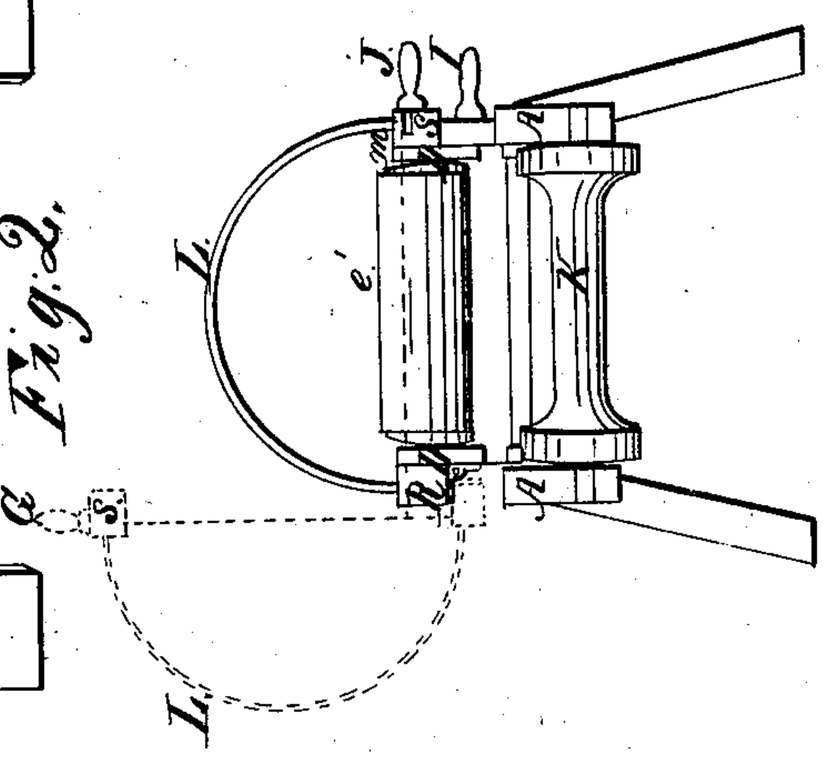


Fig. 2.



Witnesses:

Wm. L. Gnewley

George S. Tiffany

Inventor:

Porter L. Sword

UNITED STATES PATENT OFFICE.

PORTER L. SWORD, OF ADRIAN, ASSIGNOR TO GEORGE S. TIFFANY, OF PALMYRA, MICHIGAN.

TILE-RACK AND CUT-OFF.

Specification forming part of Letters Patent No. 40,149, dated September 29, 1863.

To all whom it may concern:

Be it known that I, PORTER L. SWORD, of Adrian, in the county of Lenawee, in the State of Michigan, have invented a new and Improved Rack and Cut-Off for Tile; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The object of this invention is to obtain a simple and effective device for cutting off the tiles at a right angle while they are issuing from the dies of tile-machines.

To enable others to make and use my invention, I will describe its construction and operation.

Figure 1 is a perspective view of my invention. Fig. 2 is a central vertical cross-section.

A A are the sides of a rectangular frame having four supports. Within and extending across this frame, in the same plane and below the upper edge of the frame, are three rollers, K K K. The sides D D of the rack rest upon the rollers K K K, and the rack may be moved to and from the dies of the tile-machine on these rollers, the projection of the sides of the stationary frame A A above the rollers serving as guides to the rack. This sliding rack is provided with a series of rollers, *m*, endless belts C C, and cut-off, consisting of parallel bars R S, R being hinged to the side of the rack and the parallel wires E E E, and is substantially the same as the stationary racks in common use.

The novelty of my invention consists in combining this rack with a stationary frame, so that a reciprocating motion may be given it and be operated as follows: The operator holds the sliding rack to the dies of the machine by means of the handle I, so that the tile will run out on the belt c. When he wishes to cut the tiles, he releases the rack, which then moves with the tile, seizes the handle J of the cut-off, and raises it until the wires cut through the tiles. The cut-off, being attached to the rack, moves horizontally with the tile while the wires are cutting, thus cutting the tiles at a right angle. He may then drop the cut-off to its original position or throw it back upon its hinges in the position indicated by the red lines in Fig. 2, and the next time cut downward. The rack is moved back to the machine, the tiles are removed, and the operation repeated.

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

The combination of the sliding rack with the stationary frame, when arranged to operate substantially as and for the purpose herein specified.

PORTER L. SWORD.

Witnesses:

WM. S. GRUNDY,

GEORGE S. TIFFANY.