(No Model.)

J. S. SMITH.

TABLE FOR TILE MILLS.

No. 294,519. Patented Mar. 4, 1884.

Fig. 1.

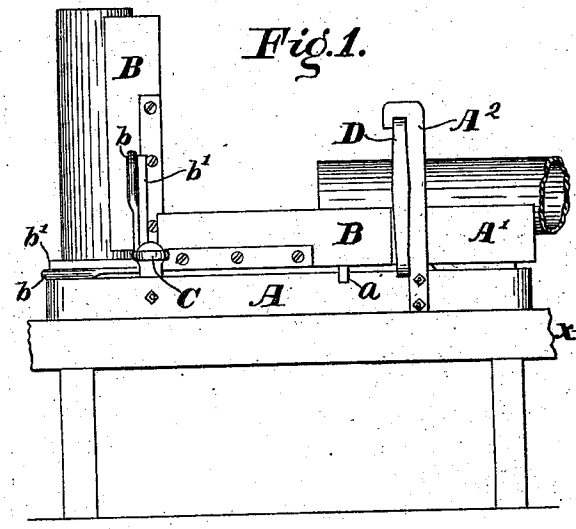

Fig. 2.

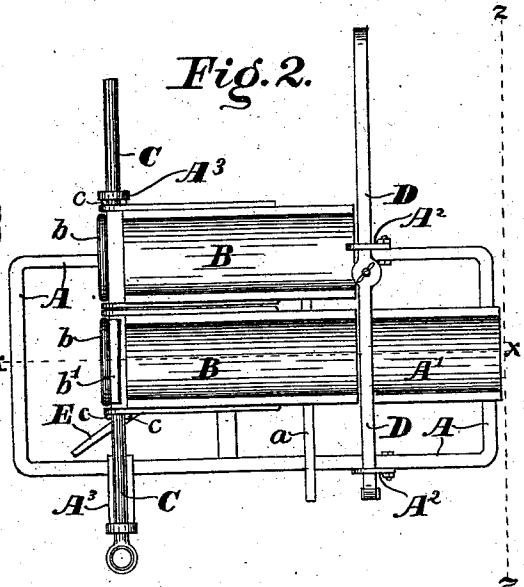

Fig. 5.

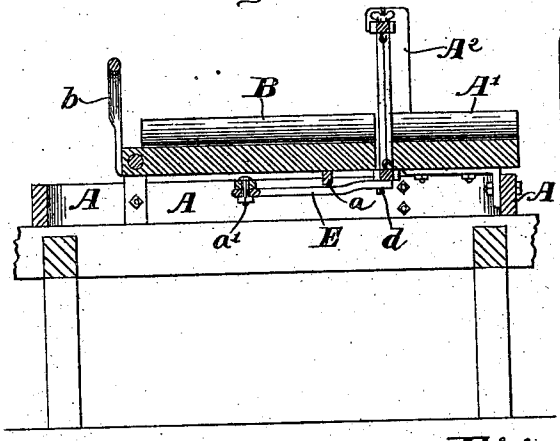

Fig. 3.

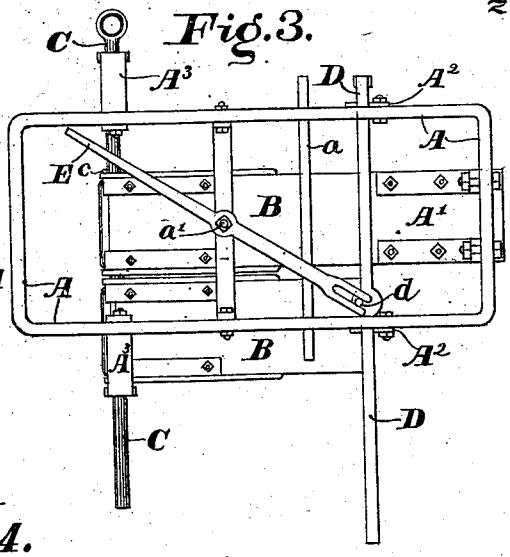

Fig. 4.

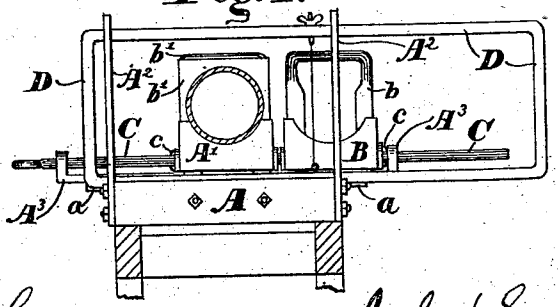

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TABLE FOR TILE-MILLS.

SPECIFICATION forming part of Letters Patent No. 294,519, dated March 4, 1884.

Application filed May 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. SMITH, of the city of Jackson, county of Jackson, and State of Michigan, have invented certain new and useful Improvements in Tables for Tile-Mills, of which the following is a specification.

The object of my said invention is to provide a substitute for or an improvement upon the device known as a "revolving table for tile-mills;" and it consists in mounting wings (preferably two) separately upon a shaft, and providing suitable means for operating the same, as will be hereinafter more particularly described.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of a table embodying my said invention in its preferred form, one of the wings being shown in vertical position carrying a completed tile, and the other in horizontal position receiving the tube of clay as it issues from the mill, (said mill not being shown;) Fig. 2, a top or plan view of the table, both wings being in horizontal position; Fig. 3, an under side plan of the same; Fig. 4, an end elevation as seen from the dotted line *z z* at the right of Fig. 2, and including the clay tube from which the tile are formed; and Fig. 5, a central vertical sectional view as seen when looking upwardly from the dotted line *x x* in Fig. 2.

In said drawings, the portions marked A represent the frame of the table; B B, the wings; C, the wing-shaft; D, the cut-off, and E a handle for operating the same.

The frame A is shown as resting on a supporting frame-work of proper height, which may also support the tile-mill. It has secured thereto a portion, A′, having, preferably, a concave upper face, which is adapted to receive the column of clay as it issues from the mill and guide it into the wing B, arranged to receive it. Standards A^2 are attached thereto, which guide the cut-off D and wings A^3, which support and guide the shaft C.

The wings B B are preferably formed, as shown, with concave faces to fit the tile, and are mounted on the shaft C. They are adapted to rest horizontally upon said shaft and the frame A, or to be raised perpendicularly on end, as shown. (See especially Fig. 1.) Each wing is provided with an end piece or frame, *b*, upon which to lay a small board or pallet, *b′*, which is adapted to receive and support the tile when turned on end. This pallet *b′* is removable, and, together with the tile, can be removed and carried off from the machine, which, as in the revolving table before referred to, is a convenient and desirable means of removing the tile from the table, as they can thus be handled without danger of disfiguring or deforming them. The wings are adapted to be moved back and forth across the frame, and thus brought successively into a proper position to receive the column of clay or tile as it is delivered from the mill or from the portion A′ of the frame.

The shaft C is a pivot-shaft, on which the wings B are mounted and turn, and by which they are shifted, so that one or the other shall be brought into position to receive the column of clay as it comes from the mill over the frame portion A′. To accomplish this latter result and still leave the wings free to partially rotate on said shafts, said wings are secured from moving lengthwise of said shafts by pins or collars *c*. A slide, *a*, on the frame supports the ends of the wings not supported by this shaft when said wings are in horizontal position.

The cut-off D is adapted to be moved transversely across the column of clay and cut the same into proper lengths for tile; but, except as hereinafter specified, it is entirely independent of my present invention, and forms no part thereof.

The handle or lever E is pivoted to a cross-bar on the frame A by a pivot or pivot-bolt, *a′*, and extends to and passes outside of a stud, *d*, on the cut-off D at one end, and at the other extends out beyond the wing B, where it can be conveniently reached while operating said wings. The object of this arrangement is to enable the operator to cut off tile as well when he is at the opposite end of the wings from the cut-off as when he is directly at said cut-off. In the latter case, the operator can, of course, take holdof the cut-off frame directly, and in the former he can operate it through this lever.

The operation of my said invention may be recapitulated as follows: The wings being placed in position, as shown in Fig. 2, one is directly in front of the frame portion A′, and as the column of clay issues from the mill and passes over said portion it passes onto and along said wing until it reaches the pallet *b′*, placed against the end *b* to receive it. As soon as said column of clay reaches this point, it is immediately severed by the operator by means of the cut-off D, which forms a tile, and the wing is immediately moved to one side, bringing the other wing into position to receive the column of clay. The wing bearing the tile is then raised on end, the pallet bearing the tile removed therefrom, and the wing restored to horizontal position. By this time the other wing has received sufficient of the column of clay to form a tile, the operation just described is performed in its case, and so on as long as it is desired to run the mill.

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

1. The combination, in a tile-mill, of two or more wings for receiving the column of clay as it issues from the mill, and a shaft on which said wings are mounted and adapted to be moved, substantially as described, and for the purposes specified.

2. The combination, in a table for tile-mills, of two or more wings arranged side by side and adapted to be moved transversely across the track of the advancing column of clay, thus bringing first one and then the other into position to receive a tile, substantially as set forth.

3. The combination of a table for tile-mills, consisting of a wing or wings, B, and a frame-work, on which the same are mounted, a reciprocating cut-off, and a lever for operating the same, extending from said cut-off to the opposite end of said wings, whereby the operator is enabled to do any part of his work in connection with such table from either end of said wings, substantially as set forth.

In witness whereof I have hereunto set my hand and seal, at Jackson, Michigan, this 30th day of April, A. D. 1883.

JOHN S. SMITH. [L. S.]

In presence of—
PETER T. MCKINNEY,
A. E. VANDERCOOK.