

(No Model.)

C. W. CRAWFORD.

CUT-OFF TABLE FOR TILE MACHINES.

No. 328,194.

Patented Oct. 13, 1885.

Fig. 1.

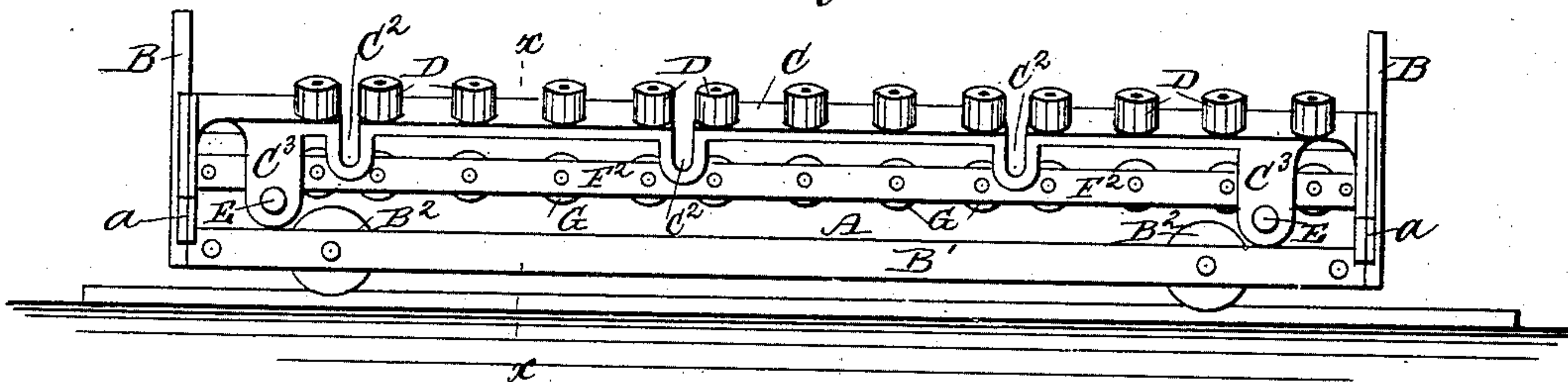


Fig. 2.

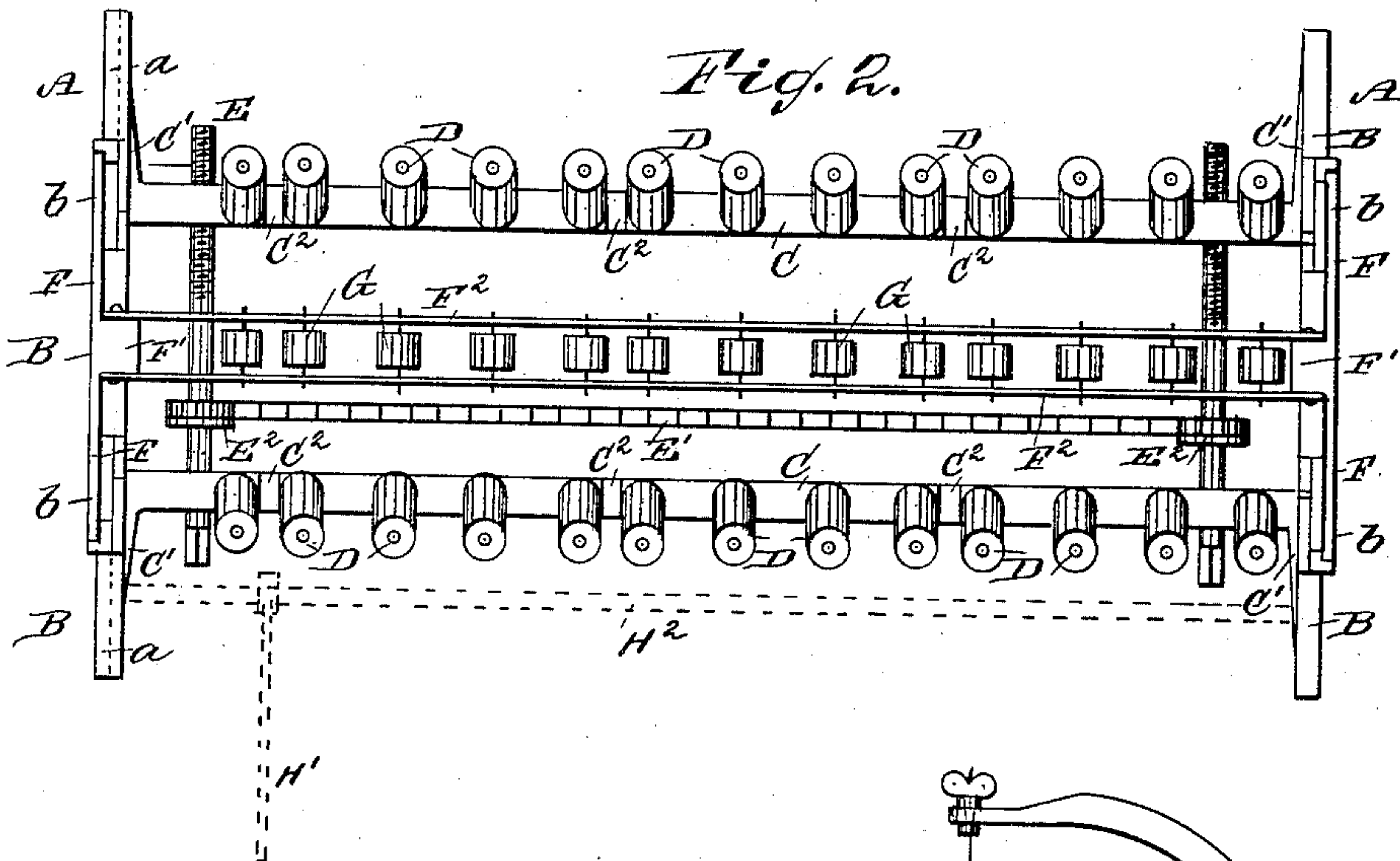
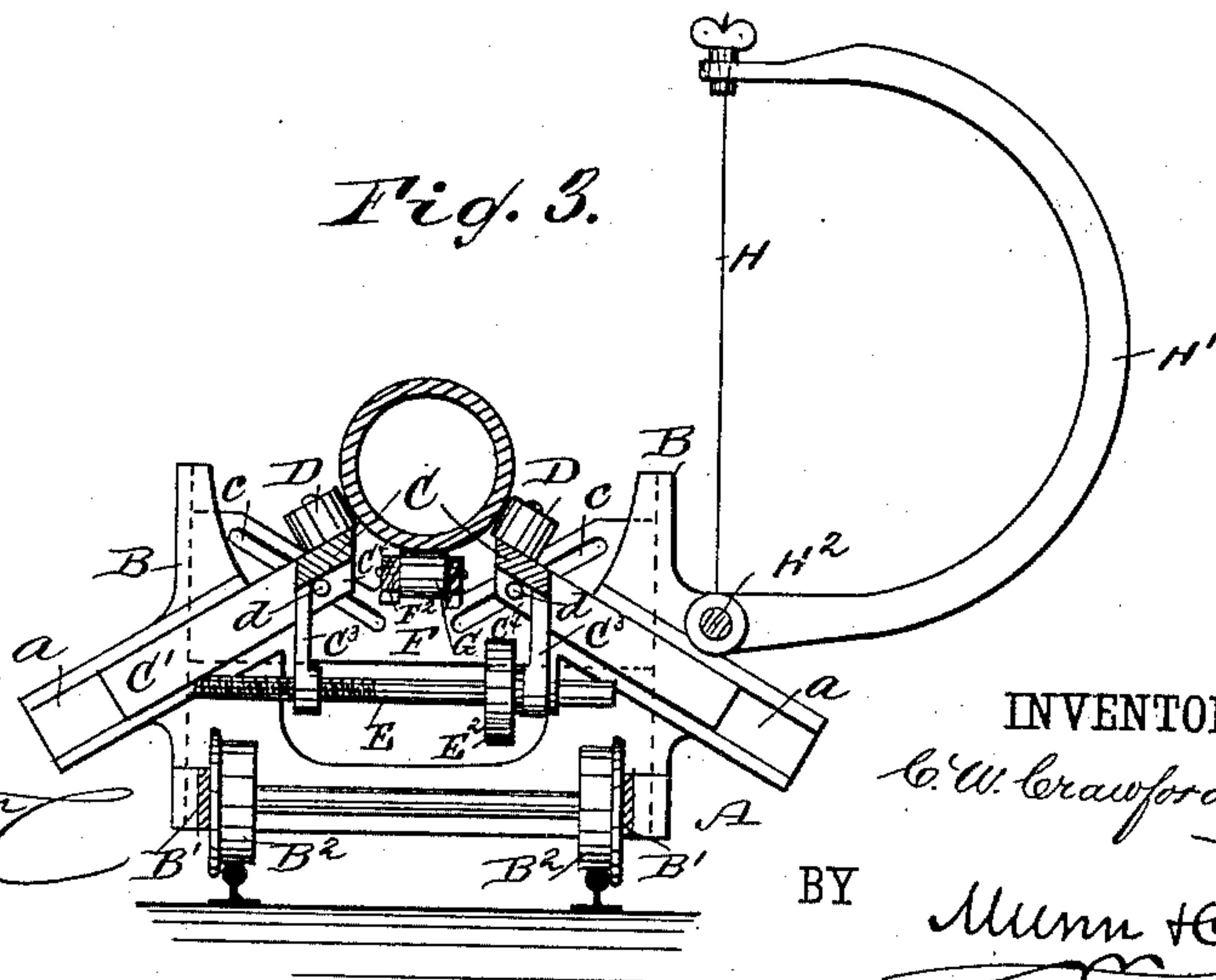


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## CUT-OFF TABLE FOR TILE-MACHINES.

SPECIFICATION forming part of Letters Patent No. 328,194, dated October 13, 1885.

Application filed April 23, 1885. Serial No. 163,135. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES W. CRAWFORD, of Brazil, in the county of Clay and State of Indiana, have invented certain new and useful Improvements in Cut-Off Tables for Tile-Machines, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved cut-off table for tile-machines, which table is so constructed as to facilitate the carrying off of the tiles as they leave the tile-machine, and guide the tiles laterally, and supporting them to prevent their flattening and chafing, and which table is adjustable to all size tiles.

The invention consists of a series of rollers placed in a horizontal adjustable frame, of two rows of rollers attached to inclined frames, which advance or recede from each other, if desired, by means of screws, sprocket-wheels, and chains, and of a truck having end pieces provided with inclined slots.

The invention also consists in various parts and details hereinafter more fully set forth and described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improved cut-off table for tiles. Fig. 2 is a plan view of the same, and Fig. 3 is a cross-sectional elevation on the lines *x x* of Fig. 1, showing the cut-off wire and its frame attached to the table.

The main frame A consists of two end pieces, B B, each provided with inclined slots *a*, cast on their inner faces and diverging from a point in the center of each end piece, B, which latter are connected with each other by longitudinal bars B' B', provided with truck-wheels B<sup>2</sup>.

Two longitudinal bars, C, having L-shaped ends C', which are placed in the inclined grooves *a* of the end pieces, B, are provided with a series of rollers, D, on their upper edges, and are also provided with depressions C<sup>2</sup> in three places to admit the passage of the cut-off wires.

Two lugs, C<sup>3</sup>, near each end of the bar C, extend downward a proper distance, and through which pass transversely two screws, E E, connecting the two bars C. The screws

E E are connected with each other by a chain, E', passing over the sprocket-wheels E<sup>2</sup>, fastened to the screws E, so that when one screw is set in motion the other is turned also.

In vertical grooves *b* on the outer sides of the end pieces, B, are plates F, having lugs F' projecting inward, to which are bolted two longitudinal bars, F<sup>2</sup>, between which is placed a series of rollers, G, having their bearings in the said bars F<sup>2</sup>. The plates F are provided with diagonal slots *c*, through each of which passes a bolt, *d*, attached to the lugs C<sup>4</sup> on the ends of the side bars, C.

The rollers D on the bars C are placed at an equal distance from the center line of the machine, and by turning one of the screws E the bars C recede or advance directly by the motion of the screws E, at the same time the bolts *d*, connecting the side bars, C, to the outside plates, F, traveling in the diagonal slots *c*, cause the plate F and the longitudinal bars F<sup>2</sup>, carrying the rollers G, to be raised or lowered, thereby making the machine adjustable to different-size tiles.

The angles of the slides C' and the grooves *c* being the same, but in opposite directions, insures the rollers D and G to advance equally, and the rollers being placed in three relative lines at the proper angles support the tiles, so that they are not flattened by their own weight, but guided laterally to be cut in suitable length by the cutting-wire H, attached to a frame, H', pivoted to a shaft, H<sup>2</sup>, placed on one side of the table, between the end pieces, B.

I am aware that broadly it is not new to employ a series of rollers journaled in the frame or bed of the machine and to dispose a series of vertical rollers at the sides of said bed-series of rollers, said vertical rollers being adjustable horizontally, together with vertically-adjusting screws, and that it is not new to employ an endless traveling belt comprising a series of transversely-arranged belts encompassing pulleys supported upon carrier-sections, said carrier-sections being pivoted or journaled to the links of the main endless belt, together with an adjustable arm carrying a friction-roller to rest in contact with the tile.

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

1. In a cut-off table for tile-machines, the



main frame A, and the longitudinal bars C, carrying the rollers D, in combination with the end pieces, F, and the longitudinal bars F<sup>2</sup>, carrying the rollers G, substantially as shown and described.

2. In a cut-off table for tile-machines, the main frame A, provided with the end pieces, B, having the inclined grooves a, and the vertical grooves b, substantially as shown and described.

3. In a cut-off table for tile-machines, the longitudinal bars C, carrying a series of rollers, D, the L-shaped ends C', and the lugs C<sup>3</sup>, in combination with the screws E, the chain E', and the sprocket-wheels E<sup>2</sup>, substantially as shown and described.

4. In a cut-off table for tile-machines, the bars C, the rollers D, the L-shaped ends C', the lugs C<sup>3</sup>, the screws E E, the chain E', and the sprocket-wheels E<sup>2</sup>, in combination with the main frame A and the end pieces, B, having the inclined grooves a, substantially as shown and described.

5. In a cut-off table for tile-machines, the plates F, having the diagonal slots c, the longitudinal bars F<sup>2</sup>, carrying the rollers G, and the lugs F', in combination with the bolts d, the lugs C<sup>4</sup>, and the longitudinal bar C, substantially as shown and described.

6. In a cut-off table for tile-machines, the plates F, having the diagonal slots c, the bars F<sup>2</sup>, the rollers G, the lugs F', the bolts d, the lugs C<sup>4</sup>, the bars C, and the rollers D, in combination with the main frame A and the end pieces, B, having the vertical grooves b, substantially as shown and described.

7. In a cut-off table for tile-machines, the main frame A, and the end pieces, B, having the grooves a and b, in combination with the bars C, the rollers D, the L-shaped ends C', the plates F, having the diagonal grooves c, the bars F<sup>2</sup>, the rollers G, the lugs F', the bolts d, and the lugs C<sup>4</sup>, substantially as shown and described.

8. In a cut-off table for tile-machines, the main frame A, the end pieces, B, having the grooves a and b, the bars C, the rollers D, the L-shaped ends C', the lugs C<sup>3</sup>, the plates F, having the diagonal grooves c, the bars F<sup>2</sup>, the rollers G, the lugs F', the bolts d, and the lugs C<sup>4</sup>, in combination with the screws E, the chain E', and the sprocket-wheels E<sup>2</sup>, substantially as shown and described.

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Witnesses:

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