

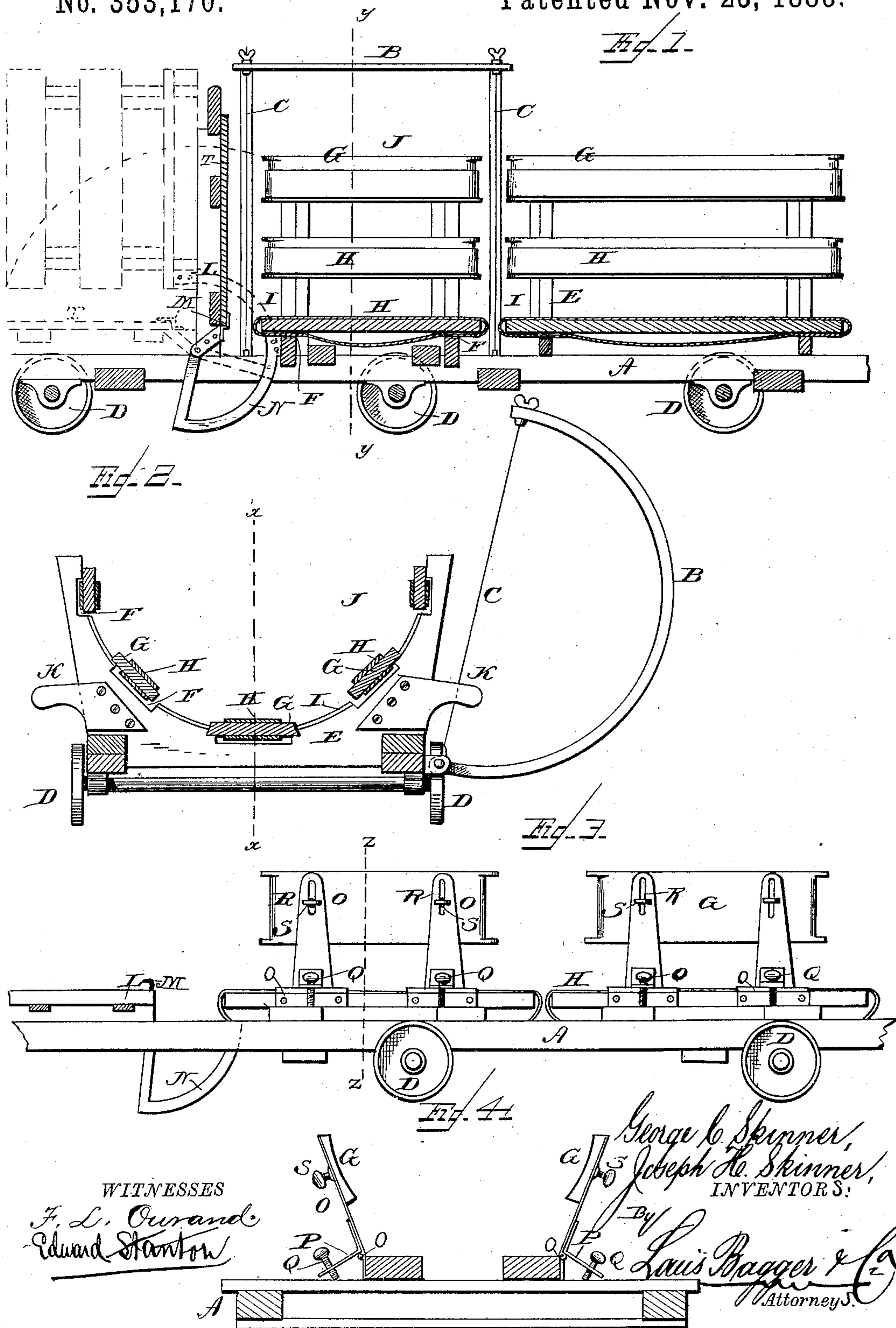
(No Model.)

G. C. & J. H. SKINNER.

CUT-OFF TABLE FOR TILE MACHINES.

No. 353,170.

Patented Nov. 23, 1886.



UNITED STATES PATENT OFFICE.

GEORGE C. SKINNER AND JOSEPH H. SKINNER, OF TROY, OHIO.

CUT-OFF TABLE FOR TILE-MACHINES.

SPECIFICATION forming part of Letters Patent No. 353,170, dated November 23, 1886.

Application filed May 26, 1886. Serial No. 203,297. (No model.)

To all whom it may concern:

Be it known that we, GEORGE C. SKINNER and JOSEPH H. SKINNER, both residents of Troy, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Cut-Off Tables for Tile-Machines; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal vertical sectional view of our cut-off table, taken on line *x x*, Fig. 2. Fig. 2 is a transverse sectional view of the same, taken on line *y y*. Fig. 3 is a side elevation of a modification of our device; and Fig. 4 is a transverse vertical section of the same, taken on line *z z*.

Like letters of reference indicate like parts throughout the four figures.

Our invention relates to cut-off tables for tile-machines; and it consists in the improved construction and combination of parts, as will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, A represents the ordinary frame for cut-off tables, provided with cutting-frame B and cutting-wires C; also with rollers D, which allow said table to be pushed toward the mill and to run out with the stream of tile during the cutting-off operation. To this table we attach a series of troughs or guides, and for convenience in handling large tile we attach to the same, at the end of the series, a pallet-frame. Said troughs consist each of U-shaped cross-pieces E, in the inner edges of which are cut gains F. To said cross-pieces, over the gains, are secured longitudinal strips G, around which pass bands H of such material as will not adhere to the green tile while moving with the same in its passage through the troughs. Metal strengthening strips I are secured upon the outer sides of said strips. Gains may be formed across the ends of said troughs, or plates may be secured to the ends thereof, which shall keep said bands in place. Rollers may also be attached to the ends of the same to facilitate the movement of the bands about them.

The end trough, J, of the series, having han-

dles K upon its sides, is hinged by one end to the frame A, and at the same point is also hinged the pallet-frame L, which has stops M projecting from its surface to engage the edge of the pallet. The hinges N of said trough are quadrant-shaped. The angle between the arc part, which is attached to the trough, and the radial part, which is attached to the frame A, provides against disturbing or interfering with the cutting-wire when said trough is raised while said wire is in its lowered position. The sides of said troughs may be made adjustable for tiles of different diameters by hinging the side portions of said cross-pieces, as at O, and attaching at right angles thereto a strip, P, provided at its outer end with an adjusting-screw, Q. (See Figs. 3 and 4.) Said cross-pieces may also be provided with slots R, and the sides of strips G with screw-threaded sockets for the reception of set-screws S, by which means said strips can be adjusted upon the sides of said cross-pieces.

In the operation of the mechanism the stream of tile as it comes from the tile-machine slides along the troughs, the bands upon the sides and bottoms thereof moving about their respective strips to facilitate its passage. When it has run the proper distance, and while the cutting operation is going on, the frame is allowed to roll along with its load. When said operation is completed, the section of tile cut and resting in the end trough is removed therefrom in the following manner: A pallet, T, is placed upon its frame against the stops and the frame raised to a vertical position, Fig. 1. Then by means of its handles said trough is raised to a vertical position, the pallet and its frame being lowered at the same time, as seen in dotted lines in Fig. 1, thus standing the tile on end upon the pallet. The trough is immediately returned to its horizontal position, and while the tile is running out upon it the section of tile on the pallet may be carried away.

Having thus fully described our invention, we claim and desire to secure by Letters Patent of the United States—

1. An attachment for cut off tables for tile-machines, consisting in the combination of a trough, adjustable or fixed, and sliding bands adapted to move longitudinally about the bottom and sides of said trough, substantially as described and set forth.

2. The combination of a cut-off table for tile-machines, a cutting-frame and cutting-wires, a series of troughs, the end one of which is hinged to said table, a pallet-frame, also hinged 5 to said table and working independently of dumping-trough, and a pallet, substantially as and for the purpose set forth.

3. In a cut-off table for tile-machines provided with a series of troughs or guides, the 10 combination, with one trough of the series, of a pair of quadrant-shaped hinges, the arc parts of which are secured to said trough and the radial parts to the sides of said table, substantially as shown and described.

15 4. An attachment for cut-off tables of tile-machines, consisting in the combination of a series of troughs or guides formed of U-shaped cross-pieces and longitudinal strips secured thereto, endless bands adapted to move about 20 said strips, the side portions of said cross-pieces being hinged at their lower ends, and

means for adjusting said side portions, substantially as shown and described.

5. An attachment for cut-off tables of tile-machines, consisting in the combination of a 25 skeleton trough or guide formed of U-shaped cross-pieces and longitudinal strips secured thereto, endless bands adapted to move about said strips, the side portions of said cross-pieces being hinged at their lower ends and provided 30 with slots, longitudinal strips provided with screw-threaded sockets, and set-screws for adjusting said strips upon said cross-pieces, substantially as shown and described.

In testimony that we claim the foregoing as 35 our own we have hereunto affixed our signatures in presence of two witnesses.

GEORGE C. SKINNER.

JOSEPH H. SKINNER.

Witnesses:

CHARLES A. EIDEMILLER,

CHAS. E. MARTIN.