

(No Model.)

F. B. STEVENS & P. E. HOFFMAN.
SAW TABLE.

No. 565,940.

Patented Aug. 18, 1896.

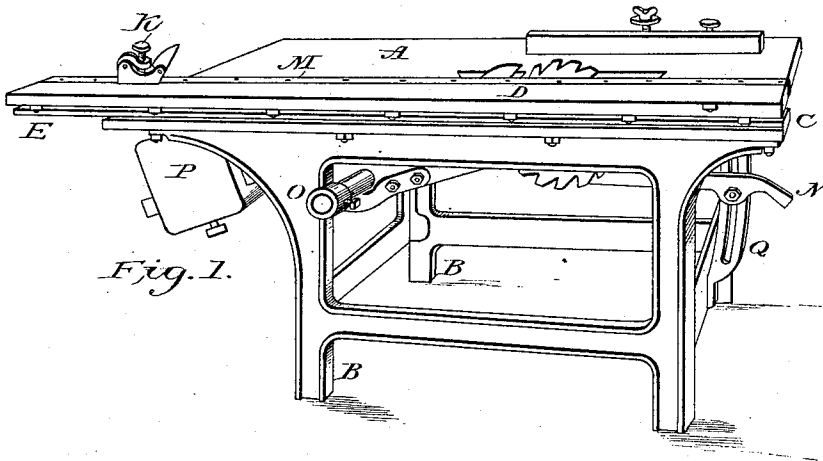


Fig. 1.

Fig. 2.

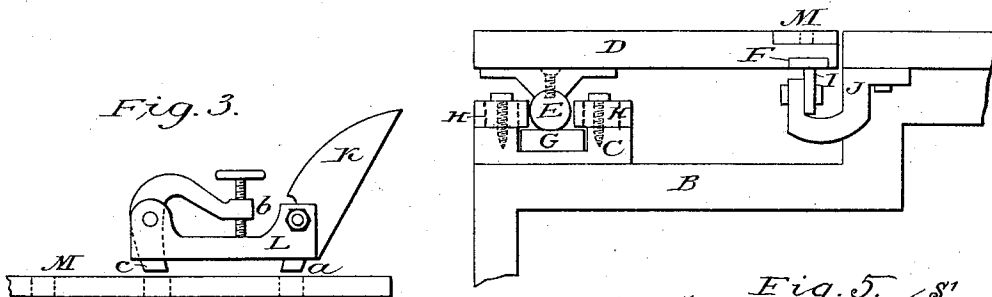


Fig. 3.

Fig. 4.

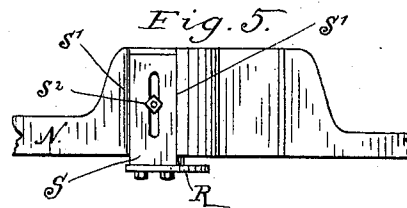


Fig. 5.

Witnesses.
John H. Allyn
Gilbert M. Bliss

Inventors
Frank B. Stevens
Peter E. Hoffman

UNITED STATES PATENT OFFICE.

FRANK B. STEVENS AND PETER E. HOFFMAN, OF WHITESBOROUGH, NEW YORK.

SAW-TABLE.

SPECIFICATION forming part of Letters Patent No. 565,940, dated August 18, 1896.

Application filed September 18, 1895. Serial No. 562,906. (No model.)

To all whom it may concern:

Be it known that we, FRANK B. STEVENS and PETER E. HOFFMAN, citizens of the United States, residing at Whitesborough, in the county of Oneida and State of New York, have invented a new and useful Improvement in Saw-Tables, of which the following is a specification.

Our invention relates to improvements in saw-tables in which a slide or carriage, saddles, a rod, a bearing, and guide-blocks operate in conjunction; and the objects of our improvements are, first, to provide a means for guiding and holding a slide or carriage to the bed of a saw-table; second, to afford facilities for the proper adjustment of a dog; third, to furnish a means for adjusting a spreader; fourth, to provide a method for balancing a swing-frame. We attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a saw-table, showing dog, spreader, shaft, weight, and part of swing-frame; Fig. 2, an end sectional view of a part of the frame, showing a slide, saddle, bed-piece, chamber, and bearing, also a rod, guide-blocks, plate, and way; Fig. 3, a detail view of a dog and section of a perforated plate; Fig. 4, a plan view of a swing-frame, shaft, spreader, and weight. Fig. 5 shows details relating to the mechanism for holding and adjusting the spreader.

Similar letters refer to similar parts throughout the several views.

The table A, its legs B B, and the bed-piece C constitute the framework of the machine. On the bed-piece C moves the slide D by means of the rod E fastened to saddles, which are attached to the under side, and by the plate F also attached to the under side. The rod E is supported by the bearing G, which consists of a mass of fibrous paper, or it may be composed of wood with grain in vertical position or of other fibrous material, it being held in and filling a chamber which extends throughout the length of the bed-piece C, and in a channel formed by the adjustable guide-blocks H H. The plate F, attached to the lower side of the slide D, moves on the adjustable way I, and is controlled by the

movement of the rod E. The way I is held in position by the lugs J, fastened to the under side of the top of the table. The upper side of the slide D is provided with a plate M, extending its entire length, having openings for receiving the lugs *a* and *c* of the dog K. The dog K consists of a blade and a frame L, having a lug *a* on the lower side, adapted to the openings in plate M, and has a slotted opening and pin for holding a lever *b*, the lower end of which forms a lug *c*, also adapted to openings in plate M, the opposite end having a threaded opening adapted to receive a threaded spindle, the lower end of which rests on the frame L, the upper end carrying a hand-wheel, the rotating of which affords a means of fastening to the plate M, the object of the dog being to hold the material operated on in position on the slide D.

The swing-frame N is held in position by bearings on the shaft O, is balanced by the weight P, and held at any position desired by a stud-and-wrench nut, which is held in the curved slotted way Q. The spreader R consists of a curved blade having two curved slots adapted for moving in a line with the teeth of a circular saw on the studs threaded and provided with nuts, by means of which it is held in position desired on the end of the seat S, which may be adjusted laterally by sliding between the lugs *s* *s'* of the swing-frame, and held in position by a set-screw *s*².

We are aware that prior to our invention saw-tables have been made with slides. We therefore do not claim such a combination broadly; but

What we do claim as our invention, and desire to secure by Letters Patent, is—

1. The combination of a fixed table having bearing G and guides H H and a sliding table having rod E, substantially as set forth.

2. The combination with a table having a line of equally-arranged holes and a dog having a frame and upright blade, a fixed lug on the under side, a movable gripping-lug and a screw for operating the movable gripping-lug, substantially as set forth.

3. In a saw-machine a counterweighted swing-frame carrying the saw-mandrel, an upright spreader-blade R and a transverse

sliding block on which the spreader-blade is adjustably secured, combined, substantially as set forth.

4. In a sawing-machine the combination of
5 a main frame, a counterweighted swing-frame carrying the saw, saw-mandrel and the upright spreader-blade, and a slotway secured on the main frame on which the swinging end of the swing-frame moves and a bolt for

securing the swing-frame in adjusted position on the slotted way, substantially as set forth.

FRANK B. STEVENS.
PETER E. HOFFMAN.

Witnesses:

JOHN H. ALLYN,
GILBERT M. BLISS.