No. 728,368. PATENTED MAY 19, 1903.

S. G. CHAMBLISS.

TABLE SUPPORT FOR SHAPERS.

APPLICATION FILED AUG. 11, 1902.

NO MODEL.

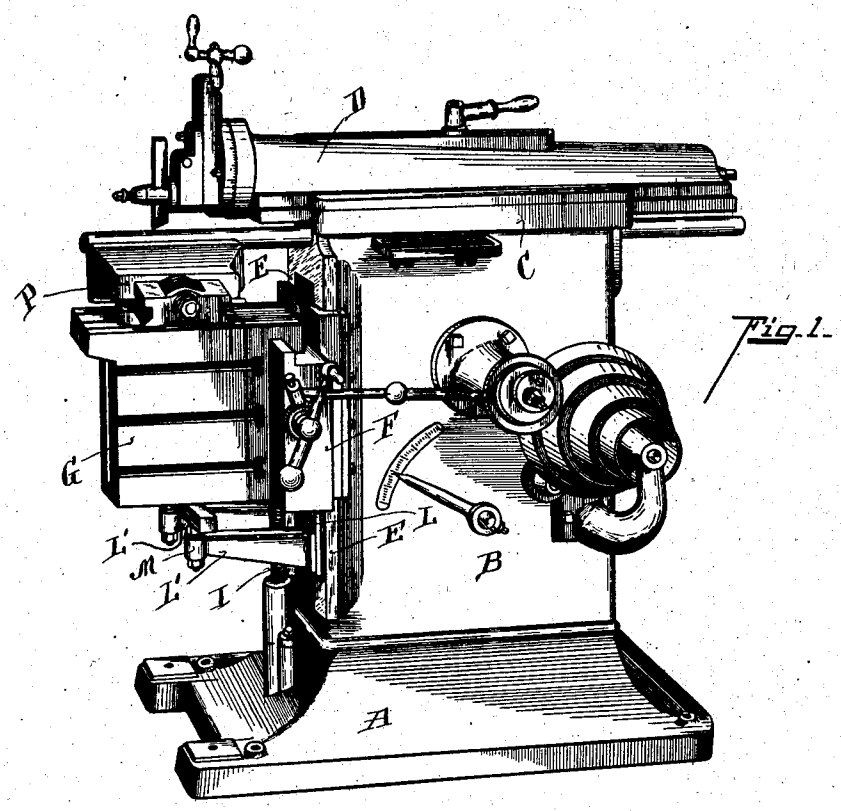


Fig. 1.

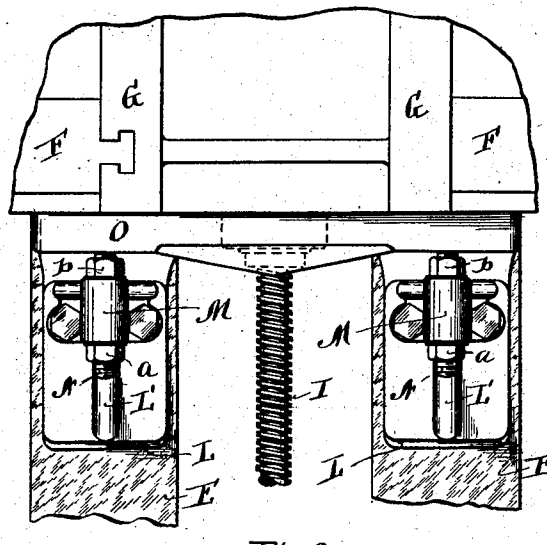


Fig. 2.

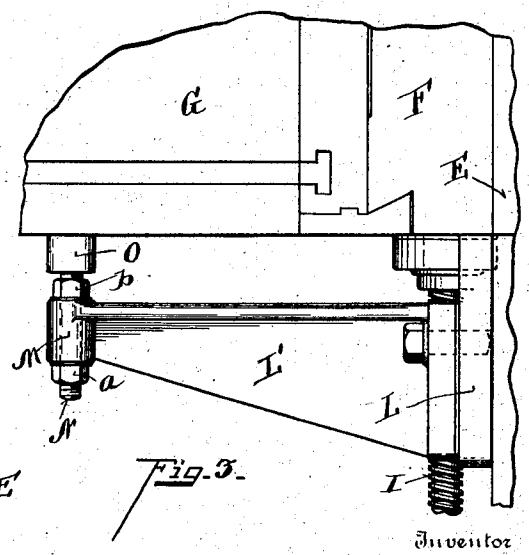


Fig. 3.

Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 728,368. Patented May 19, 1903.

UNITED STATES PATENT OFFICE.

SMITH G. CHAMBLISS, OF XENIA, OHIO, ASSIGNOR TO THE R. A. KELLY COMPANY, OF XENIA, OHIO, A CORPORATION.

TABLE-SUPPORT FOR SHAPERS.

SPECIFICATION forming part of Letters Patent No. 728,368, dated May 19, 1903.

Application filed August 11, 1902. Serial No. 119,274. (No model.)

To all whom it may concern:

Be it known that I, SMITH G. CHAMBLISS, a citizen of the United States, residing at Xenia, in the county of Greene and State of Ohio, have invented certain new and useful Improvements in Shapers, of which the following is a specification.

My invention relates to an improvement in shapers.

The object of my invention is to provide means for supporting the table of the shaper and to maintain it in a level position, and also means for raising and lowering the same, the features of which will be more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of a shaper with my improvement attached. Fig. 2 is a front elevation of a section of table and its support. Fig. 3 is a side elevation of Fig. 2.

A represents the base of the frame, and B the column of the shaper.

C represents the carriage-bed, D the tool-carriage, which is reciprocated on its bed by mechanisms in the usual manner with crank-shapers. On the front of the column I have provided ways E, to which is jibbed a vertically-adjustable carriage F. To this carriage is adjustably secured a table G, which is of the usual construction. The vertical carriage is raised and lowered by a screw-rod I. The screw-rod is revolved by crank and miter gears in the usual manner. (Not shown in the drawings.) These parts are of well-known construction.

The vertically-adjustable carriage F is provided with slide-plates L, to the lower end of which are rigidly secured the bracket-arms L′, which project laterally forward approximately to the center of the table. These slide-plates L, being integral with the carriage F, have their inner face planed flush with the inner face or side of the carriage, and therefore rest and slide upon the ways E of the column, thus finally imparting the strains to said ways.

M represents a boss or hub on the front end of the bracket-arms. N represents a screw-rod passing through a bore in said boss.

a represents a set-nut having threaded engagement with the screw-rod N. *b* represents a similar set-nut having threaded engagement with said screw-rod.

O represents a rail which is stretched across the table G, on which the table rests and slides. Screw-rods N have threaded engagement with the said support or rail O. When it is desired to adjust the rail or support O, one of the nuts may be slackened and the other nut turned to raise or lower the screw-rod as desired. Both screw-rods are of the same construction and adjusted in like manner. The table G has two supports upon the crossways of the carriage F and upon the bridging rail O, adjustably supported upon the sliding brackets. By this construction the rail which supports the front end of the table is rigidly held in position and may be adjusted to secure the proper table-level, and the table is supported approximately vertically under the center of the vise P, in which is clamped the work, giving a firm vertical support and preventing tremors, thereby obtaining a uniform cut and preventing vibration. The table can be readily adjusted at any time to an exact level position. It will be observed that these bracket-supports for the table are raised and lowered with the table, and when the adjustment is once obtained it is not disturbed by the movement of the table laterally or vertically.

Having described my invention, I claim—

1. A shaper provided with vertical ways, a carriage provided with slide-plates engaging said ways, a table supported by said carriage, forwardly-projecting brackets on the slide-plates, and a cross-rail on said brackets forming a bottom support for said table, substantially as described.

2. A shaper having vertical ways, a carriage provided with slide-plates engaging said ways, a table primarily supported by said carriage, brackets secured to the slide-plates, adjusting-bolts in the ends of said brackets, and a cross-rail engaged by said bolts and forming a secondary adjustable table-support, substantially as described.

3. A shaper having vertical guideways, a carriage having integrally-formed slides engaging said ways, a table primarily supported by said carriage, forwardly-extending brack-

ets secured to the carriage, and a cross-rail on the brackets forming a secondary table-support, substantially as described.

4. In combination with a shaper having vertical guideways, a carriage having integrally-formed slides engaging the said ways and a cross-slide for the table, brackets secured to the said carriage, and a cross-rail supported by said brackets, a table supported by the said cross-slide of the carriage and the cross-rail of the brackets, and means for adjusting the said cross-rail, whereby the table is adjustably supported by the carriage, substantially as described.

In testimony whereof I have hereunto set my hand.

SMITH G. CHAMBLISS.

Witnesses:
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