E. H. & C. W. HANNA.

Saw-Tables.

No. 149,654. Patented April 14, 1874.

Fig. 1

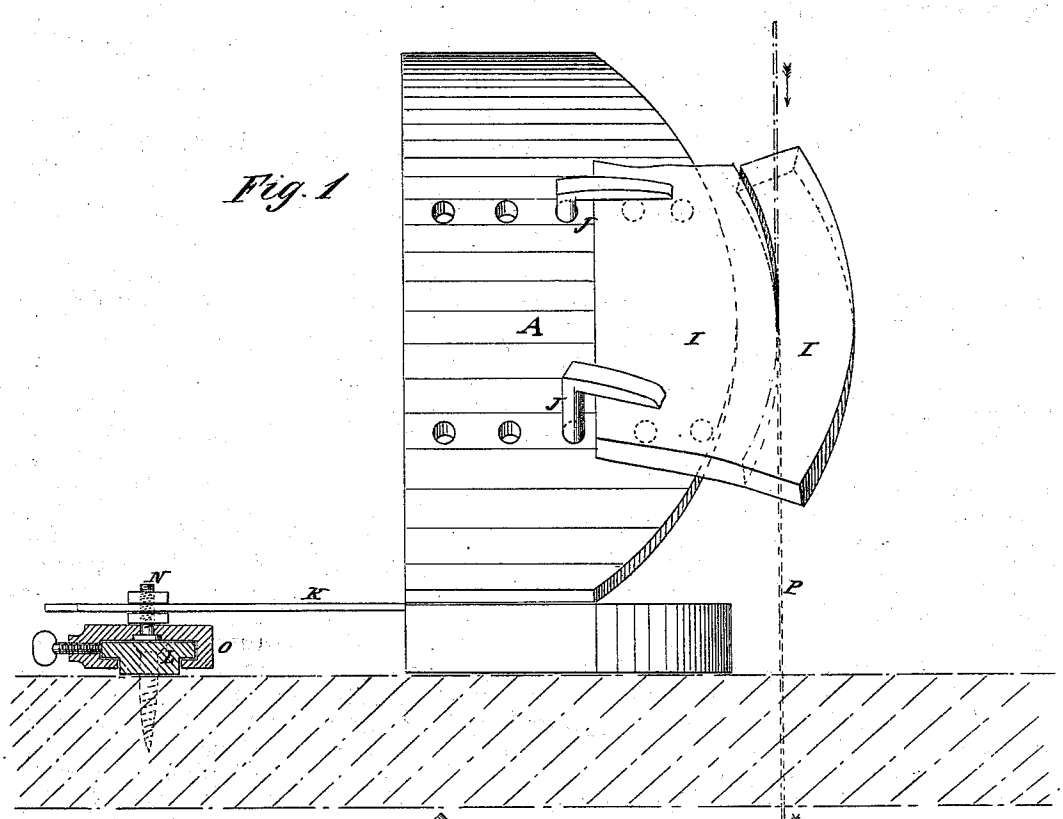


Fig. 2

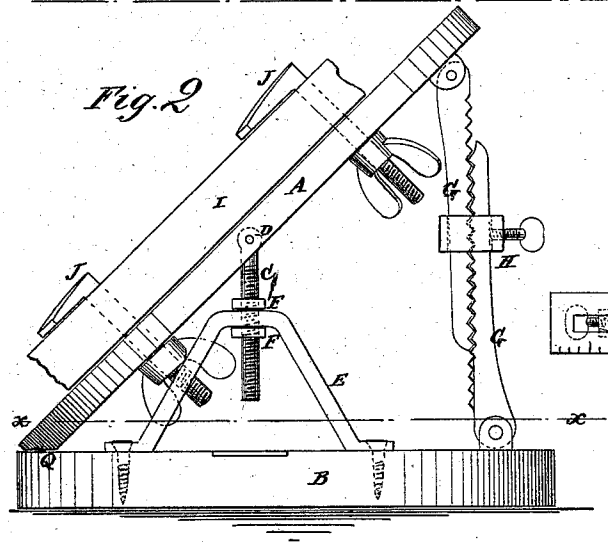
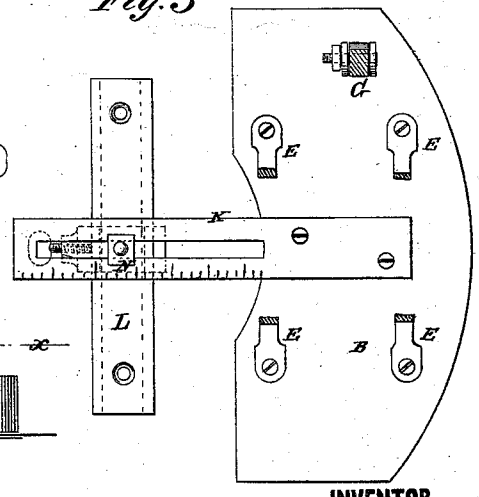


Fig. 3



WITNESSES.

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UNITED STATES PATENT OFFICE.

EDWARD H. HANNA AND CHARLES W. HANNA, OF DOVER, KENTUCKY.

IMPROVEMENT IN SAW-TABLES.

Specification forming part of Letters Patent No. **149,654**, dated April 14, 1874; application filed February 21, 1874.

To all whom it may concern:

Be it known that we, EDWARD H. HANNA and CHARLES W. HANNA, of Dover, in the county of Mason and State of Kentucky, have invented a new and useful Improvement in Saw-Tables, for sawing hand-rails, &c., of which the following is a specification:

The invention will first be fully described and then pointed out in the claim.

In the accompanying drawing, Figure 1 is a side view, showing the pitch-board, the bed, and the saw, applied as when in use. Fig. 2 is an elevation, showing the apparatus for holding and adjusting the pitch-board, and the clamp for holding the plank to be sawed. Fig. 3 is a view looking down from the line *x x* of Fig. 2, showing the slotted radius-plate for adjusting the pitch-board to saw the required diameter.

Similar letters of reference indicate corresponding parts.

A is the pitch-board, upon which the plank to be sawed is clamped. B is the bed-plate, which stands upon the sawing-table. The pitch-board is supported on the bed by means of two screws, C, which are jointed to the board A, as seen at D, and work through stands E, and are confined in any desired position by nuts F F, (see Fig. 2.) G G are adjusting-bars, one of which is jointed to the pitch-board A, and the other to the bed B. These bars have each a serrated edge, and lap past each other, so that the serrated edges engage with each other, and are confined by means of a screw-clamp, H, when the board is properly adjusted. The serrated edges prevent the bars from slipping. Any equivalent device may be employed for this purpose. I is the plank to be sawed, secured to the pitch-board by the clamps J J. K is a slotted plate attached rigidly to the bed B. This plate is graduated or marked off into inches and fractions. L is a plate which is rigidly attached to the saw-table, and is, of course, stationary. The radius-plate K, when the pitch-board is properly adjusted, is confined by means of a pivot-bolt, N, which is carried by the adjustable clamp O. This clamp is made to slide on the plate L so as to vary the position of the bed by a lateral movement. The pitch-board A rests on the bed at one end, as seen at Q, and is made to stand at any desired angle to the saw, as before described. The plank is lapped over the edge of the pitch-board, and is sawed by turning the pitch-board and bed on the pivot-bolt N, the desired wind being given by means of the inclination and position of the pitch-board. P is the saw.

By this simple and cheap device a vast amount of hand cutting and shaving is avoided, saving much time, and doing the work in an accurate manner.

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

The combination of pitch-board A, pivoted screws C, pivoted bars G G, and bed B, substantially in the manner and for the purpose described.

EDWARD H. HANNA.
CHARLES W. HANNA.

Witnesses:
OSCAR HANNA,
WM. F. MUNZING.