

J. P. LUTHER.
Turning-Lathes.

No. 141,940.

Patented August 19, 1873.

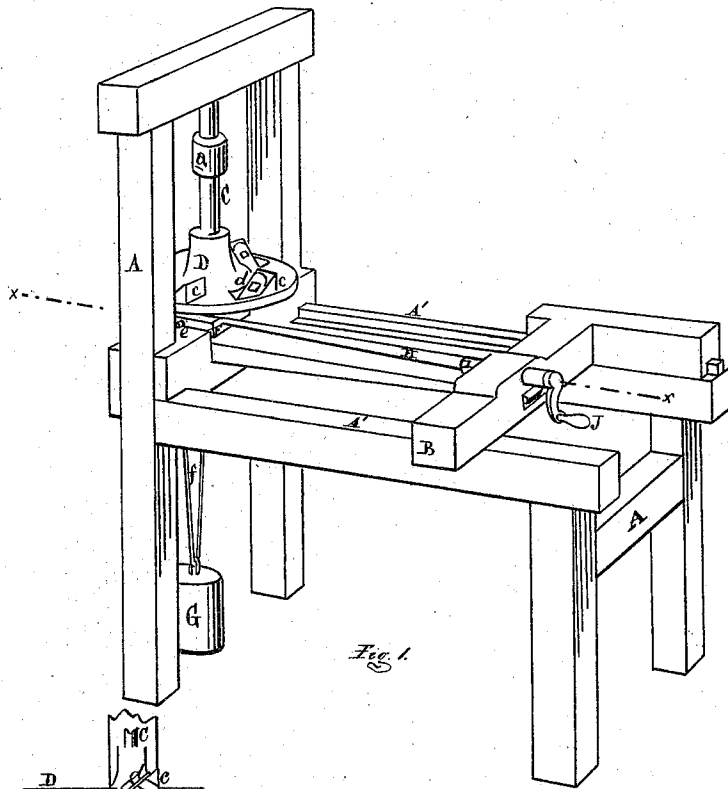


Fig. 1.

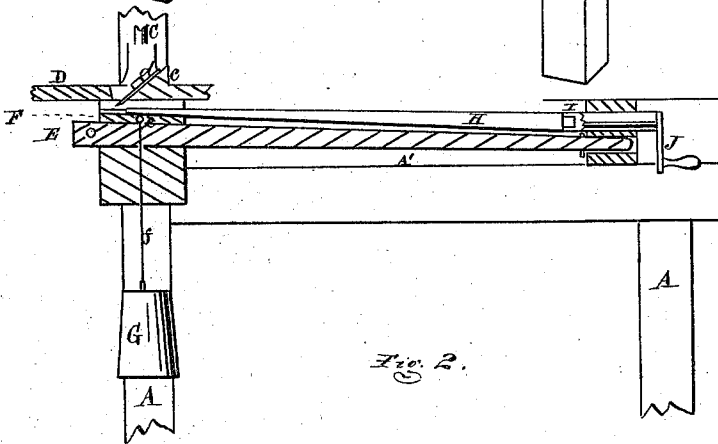


Fig. 2.

ATTEST:
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per Attorney
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

JUSTUS P. LUTHER, OF BERLIN, WISCONSIN.

IMPROVEMENT IN TURNING-LATHES.

Specification forming part of Letters Patent No. 141,940, dated August 19, 1873; application filed April 8, 1873.

To all whom it may concern:

Be it known that I, JUSTUS P. LUTHER, of Berlin, in the county of Green Lake and State of Wisconsin, have invented a new and useful Improvement in Turning-Lathes; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a perspective view. Fig. 2 is a vertical section on the line *xx* in Fig. 1.

Like letters refer to like parts in each figure.

This invention relates to a machine for turning tapered whip-stocks, but is more especially designed for turning that class of whips which are built up of leather strips and glued together and pressed into a solid mass. The invention consists in a frame-work, in one end of which is arranged a revolving cutter, in the general form of the well-known "Daniels planer," in a girt under which is hung a rest, which receives an adjustment in a horizontal plane from a wedge sliding under it, one end of which wedge is attached to a cross-head moving on the ways of the frame, which cross-head has journaled in it the chuck for the stock, which chuck is provided with a crank, by means of which the stock may be rotated as it is fed up to the planer, it being supported by the self-adjusting rest.

In the drawing, A represents the frame of the machine; A', the ways upon which the cross-head B slides. C is a vertical shaft, journaled in girts across the vertical end posts, and is provided with a pulley, *a*, around which a belt passes to rotate it at the proper speed. D is a disk at the lower part of the shaft C, and is provided with several segmental slots or plane throats near the periphery, with an incline plane, *e*, at each throat, to which is bolted an ordinary plane-iron, *d*, whose cut-

ting-edge is adjusted to take a light shaving from anything against the under face of the disk. E is a long wedge, lying in a slot in the lower girt, with its thin end toward the cross-head, which pushes it forward. Upon the wedge lies a rest, F, which is kept from moving longitudinally by a trunnion, *e*, at each side playing in a mortise through the lower girt. A weight, G, is suspended by a bail, *f*, from the trunnion to keep the rest from rising into actual contact with the disk. The upper surface of the rest has a longitudinal groove to receive and guide the whip-stock H in its longitudinal movement, the butt of the said stock being centered upon a spur-chuck, I, journaled through the cross-head, which chuck is provided with a crank, J, by means of which it and the whip-stock may be axially rotated. The cross-head being retracted from the planer, and the stock chucked, its front end lying in the rest, which is now at its greatest elevation, the attendant with one hand pushes forward the cross-head, while with the other he rotates the stock, whose tip is at once reduced by the action of the cutters, under which it passes in a tangential line, being also rounded thereby by the axial rotation imparted to it. As the stock is advanced toward the cutters, the wedge gradually lowers the rest, and thus the stock is turned to a true taper from end to end.

What I claim as my invention, and desire to secure by Letters Patent, is—

The construction and arrangement of the frame A, cross-head B, shaft C, disk D provided with cutters *d*, the wedge E, rest F, chuck I, and crank J, substantially as and for the purpose set forth.

JUSTUS P. LUTHER.

Witnesses:

L. EICHSTAEDT,
H. P. MORRISON.