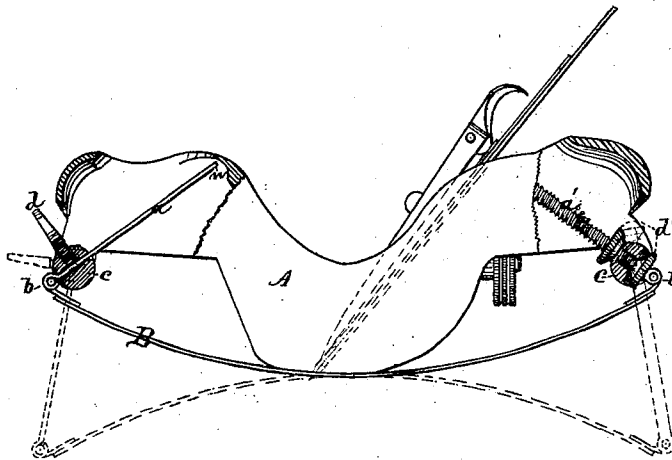


L. Bailey,

Bench Plane.

No. 113,003

Patented Mar 28, 1871.



Witnesses.

Chas. H. Wood
James Shepard

Inventor,

Lemuel Bailey

UNITED STATES PATENT OFFICE.

LEONARD BAILEY, OF NEW BRITAIN, CONNECTICUT.

IMPROVEMENT IN PLANE-STOCKS.

Specification forming part of Letters Patent No. **113,003**, dated March 28, 1871.

I, LEONARD BAILEY, of New Britain, in the county of Hartford and State of Connecticut, have invented certain Improvements in Flexible-Faced Plane-Stocks, of which the following is a specification:

My invention consists in the combination of the parts, as hereinafter described.

The accompanying drawing shows a side elevation, partly in section, of a plane-stock of my invention.

A designates the stock proper, which I prefer to make of cast metal; but it may be made of any suitable material. B designates the flexible face-plate, which is made of spring-steel, and secured to the under side of the stock A, near the center of its length, by screws or rivets, in the ordinary manner.

At each end of the face-plate B is secured an arm, *a a'*, connected thereto by means of a suitable hinge, *b b'*. The arms *a a'* pass through the rocking shafts *c c'*, which shafts are pivoted in each end of the stock A, in such manner as to easily rock or partially rotate.

By means of the set-screw *d* (shown at the left in the drawing) the arm *a* may be secured firmly in the rocking shaft *c*; or, if desired, the arm *a'* may be threaded and held in place by a nut, *d'*, upon each side of the rocking shaft, as shown at the right in the drawing.

The peculiar mechanism employed to secure or fasten the arms *a a'* in the rock-shafts *c* is immaterial to my invention. Each end of the

stock A is made hollow or open, to allow free play to the arms *a a'*.

The broken lines in the drawing indicate the position of the arms *a a'* and face-plate B, with the latter bent into a concave form.

By releasing the set-screw *d*, so as to allow the arm *a* to pass freely through the rocking shaft *c*, the ends of the face-plate B may be bent upward, forming the latter into a convex form.

The movement of either arm *a a'*, in passing through the shaft *c* causes said shaft to rock on its pivots, when the end *n* of such arm *a a'* moves in an inward as well as upward direction, and rests (when the ends of the face-plate B are bent upward to their full capacity) in the hollow of the stock A, as shown in the drawing.

The face-plate B may be set with its ends at any point between the two positions herein shown.

I claim as my invention—

In a flexible-faced plane-stock, substantially as described, the rocking shaft *c c'*, pivoted in the stock A, and receiving the arms *a a'* of the face-plate B, all substantially as and for the purpose described.

LEONARD BAILEY.

Witnesses:

JAMES SHEPARD,
CHAS. L. MEAD.