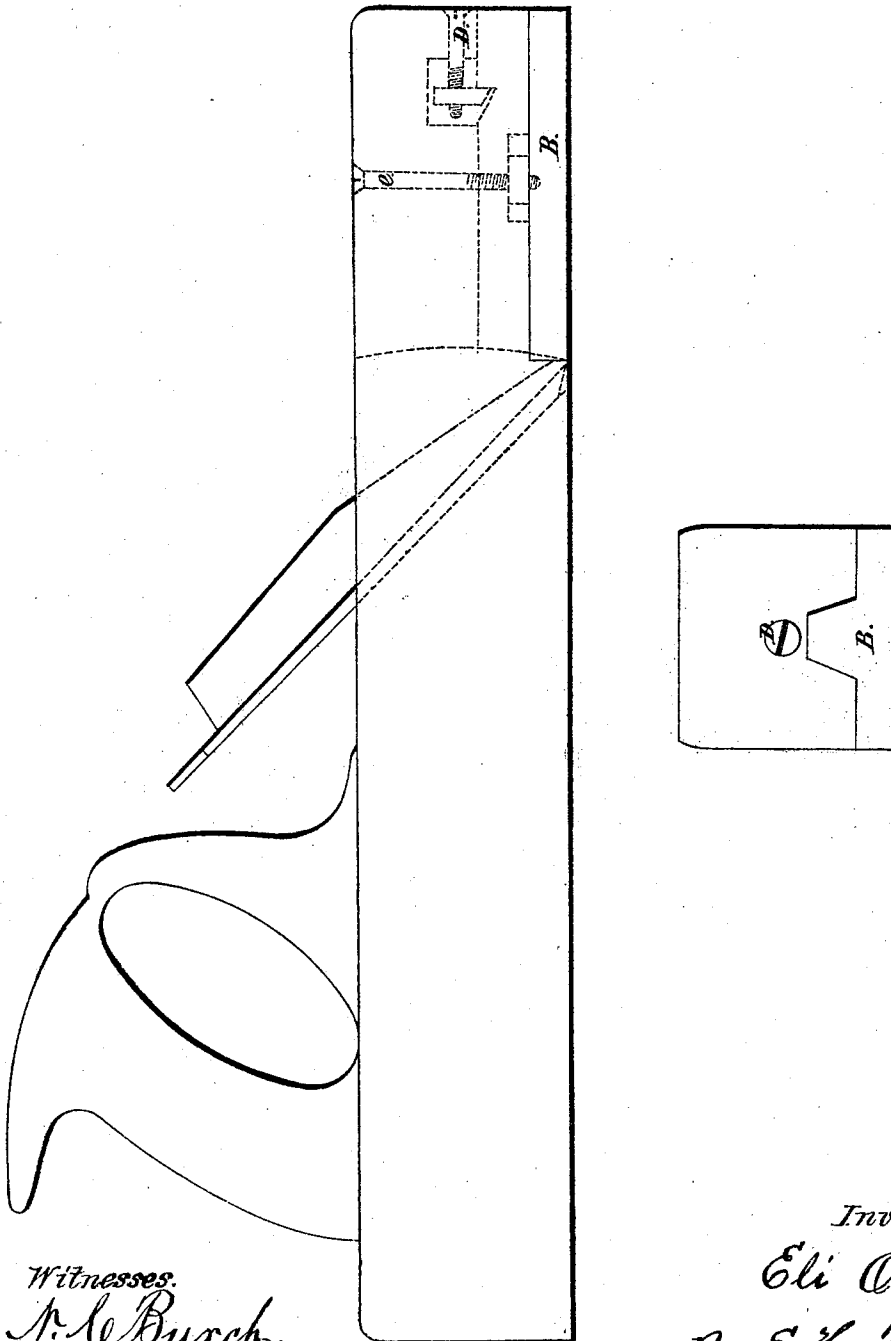


E. ODELL.
PLANE.

No. 41,317.

Patented Jan. 19, 1864.



Witnesses.
N. L. Burch.
J. Moore.

Inventor.
Eli Odell.
By E. H. Talbott.
att.

UNITED STATES PATENT OFFICE.

ELI ODELL, OF WINTERSET, IOWA.

IMPROVEMENT IN PLANES.

Specification forming part of Letters Patent No. **41,317**, dated January 19, 1864.

To all whom it may concern.

Be it known that I, ELI ODELL, of Winter set, Madison county, and State of Iowa, have invented an Improvement on the Common Plane in two particulars, as hereinafter described, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my improvements are in the two following particulars: First, the thread of the plane is to be cut concave, instead of convex, as in the usual form, thus entirely preventing it from choking with shavings, as is customary with the common form; second, improvement is to prevent the enlargement of the throat of plane as the face wears away by use, which is done in the following manner: Cut out to the depth of one inch (more or less) the face of the plane from the throat to the front end. Then cut a groove in the center of the plane from the front end to the throat on the under side. Then make a separate piece to form that part of the face of the plane cut out, and also to fit the groove accurately. The object of this piece on the face of the plane is to keep the throat of the plane small as the face wears away by use,

and is done by cutting the shoulder at the throat of the plane and sliding the face-piece toward the bit, and is represented by the letter B. Thus, the throat may be regulated in size until the plane is worn out. Said face-piece is moved by and held by two screws, the one on the top, letter C, passing through the upper part of the plane and down into letter B into a nut that has play, that it can slide along in a mortise in letter B. The other, in the front end, (represented by D,) connects with a nut in a mortise in the upper part of the plane, which nut hooks into letter B, which can slide either to open or shut the throat. In order to disconnect letter B (the face-piece) from the plane, unscrew letter C until letter B comes loose.

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

A plane, with the adjustable face-plate B, in combination with a concave throat, the whole constructed and operated substantially as described.

ELI ODELL.

Witnesses:

JNO. LEONARD,
A. D. NOSLER.