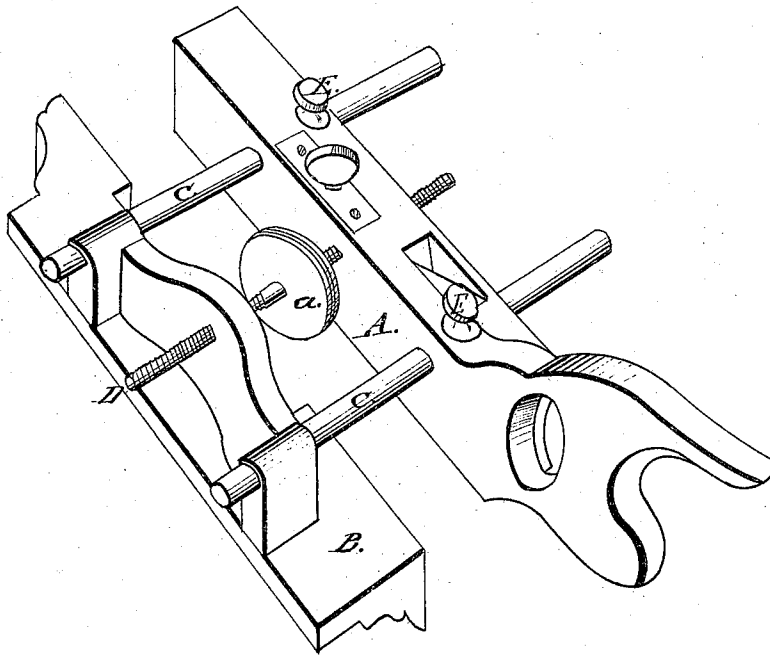


H. Vanbuskirk,

Bench Plane.

No. 97,328.

Patented Nov. 30, 1869.



Witnesses:

H. F. Eberts
Jas. I. Day

Inventor:

Hannan VanBuskirk.

UNITED STATES PATENT OFFICE.

HARMON VANBUSKIRK, OF VIENNA, MICHIGAN.

IMPROVEMENT IN CARPENTERS' PLOWS.

Specification forming part of Letters Patent No. 97,328, dated November 30, 1869; antedated November 24, 1869.

To all whom it may concern:

Be it known that I, HARMON VANBUSKIRK, of Vienna, in the county of Genesee and State of Michigan, have invented a new and useful Improvement in Plow-Planes for Carpenters' Use; 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.

The nature of this invention relates to an improvement in the construction of plow-planes for the use of carpenters and joiners, by means of which the implement may be set for use more accurately and readily than when constructed in the ordinary manner; and it consists in the employment of a right-and-left-hand screw, and a suitable guide, and arms secured to said guide and passing through the stock.

In the drawings, A represents the stock, and B the guide, which are both constructed in the usual manner.

C are the arms, rigidly secured at one end to the guide, while the opposite ends are inserted into and pass through proper holes through the stock, which holes should be of the size of the arms, allowing them to slide freely through said holes without play.

D is a right-and-left hand screw, provided

with small hand-wheel *a* in its longitudinal center. Suitable female screws are cut through the body A and guide B, which engage with either end of this screw.

E are set-screws passing downward through the top of the body, and are intended, when the tool is set for use, to impinge on the arms and prevent the same from slipping.

The right-and-left-hand screw may be made of wood or metal, as may be most desirable.

In plow-planes of the usual construction the arms are both provided with suitable screw-threads and nuts, rendering it necessary for the operator to adjust both ends of the implement separately, requiring considerable skill and time. With my improvement the proper set is obtained by the one screw, and the operator saves time and trouble.

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

The right-and-left-hand screw D, when used in the construction of carpenters' plow-planes, as herein described, in combination with stock A and guide B, all operating substantially as herein set forth.

HARMON VANBUSKIRK.

Witnesses:

JAS. I. DAY,

THOS. S. SPRAGUE.