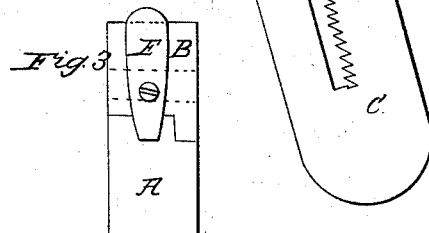
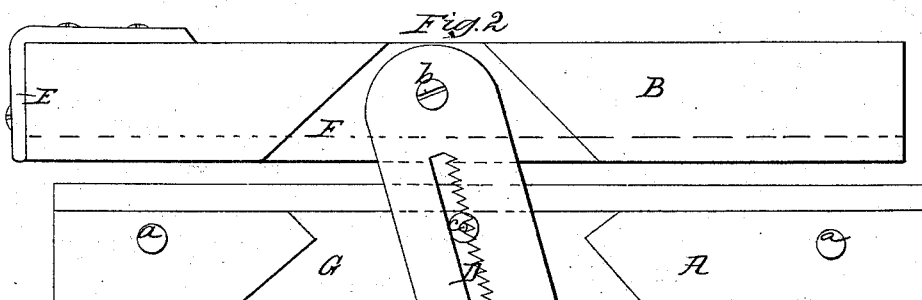
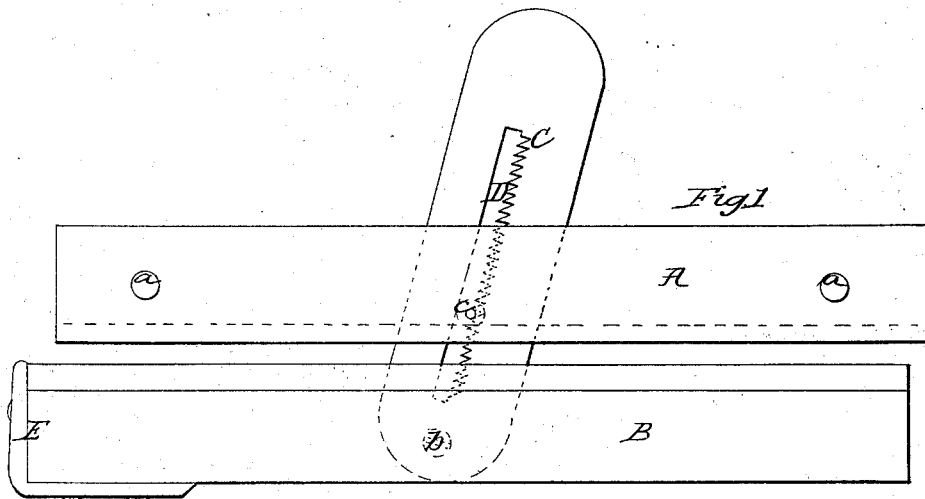


Wood & Blood,

Bench Dog.

N^o 48,498.

Patented June 27, 1865.



Witnesses:

J. H. Porrett

J. E. Porrett

Inventor:

E. P. Moore

A. E. Blood

UNITED STATES PATENT OFFICE.

E. P. WOODS, OF LOWELL, AND A. E. BLOOD, OF LYNN, ASSIGNORS TO
WOODS, SHERWOOD & CO., OF LOWELL, MASSACHUSETTS.

IMPROVEMENT IN BENCH-HOOKS AND CLAMPS.

Specification forming part of Letters Patent No. **48,498**, dated June 27, 1865.

To all whom it may concern:

Be it known that we, E. P. WOODS, of Lowell, in the county of Middlesex and State of Massachusetts, and A. E. BLOOD, of Lynn, in the county of Essex and State of Massachusetts, have invented a new and Improved Adjustable Clamp and Bench-Hook for Carpenters, Cabinet-Makers, &c.; and we do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, figures, and letters of reference thereon, making part of this specification.

Of the said drawings, Figure 1 is a top view. Fig. 2 is an under-side view, and Fig. 3 an end view.

Similar letters of reference indicate like parts in all the drawings.

In the finishing of small work by carpenters, cabinet and pattern makers, and similar trades, much difficulty is experienced and time lost in effectually holding the stock firmly for the plane, &c.

The object of our invention is to obviate these difficulties; and our invention consists in the employment of two parallel bars, to one of which is attached a hook, the said bars being connected together at or near the center by a bar provided with a rack and stop, as will be fully set forth.

To enable others skilled in the art to make and use our invention, we will describe the construction and operation thereof.

A represents a bar, which may be of any desired length, which is provided with two or more holes, *a a*, for dowel-pins to hold it to the bench.

B is another bar of the same length, one end of which is provided with a hook, E, to hold the piece of stock. These bars may be rabbeted

together or not, as desired, and they are clamped together by a bar, C, hinged to the piece B at *b*. This bar has an internal rack, D, in which is a pin, *e*, which is of proper size to catch in the teeth of the rack and hold it in any position, while the button on the pin prevents the parts from coming apart. The under sides of both bars are cut away, so that the bar C and screw *b* and pin *e* will be above the plane of the under side, so that it will fit the work-bench.

The operation will be as follows: The jaws or bars A B are adjusted, so as to receive the material to be finished, by moving the bar B the desired distance, and then hooking the rack-bar C upon the pin *e*, and the piece of work is inserted in the jaws, the end resting against the hook E on the end, and as the plane is applied the piece is grasped and held firmly between the jaws.

The apparatus is readily adjusted for thick or thin pieces of material, and a wedge-shaped piece will be held as firmly as a straight piece.

We claim—

1. The jaws A B, in combination with the hook E and connecting-bar C, substantially as and for the purposes set forth and described.

2. In combination with the jaws A B and hook E, making the apparatus adjustable for thick or thin material by means of the rack D and pin *e*, or equivalents therefor, substantially as and for the purposes set forth and described.

E. P. WOODS.
A. E. BLOOD.

Witnesses:

J. H. PARROTT,
S. E. PARROTT.