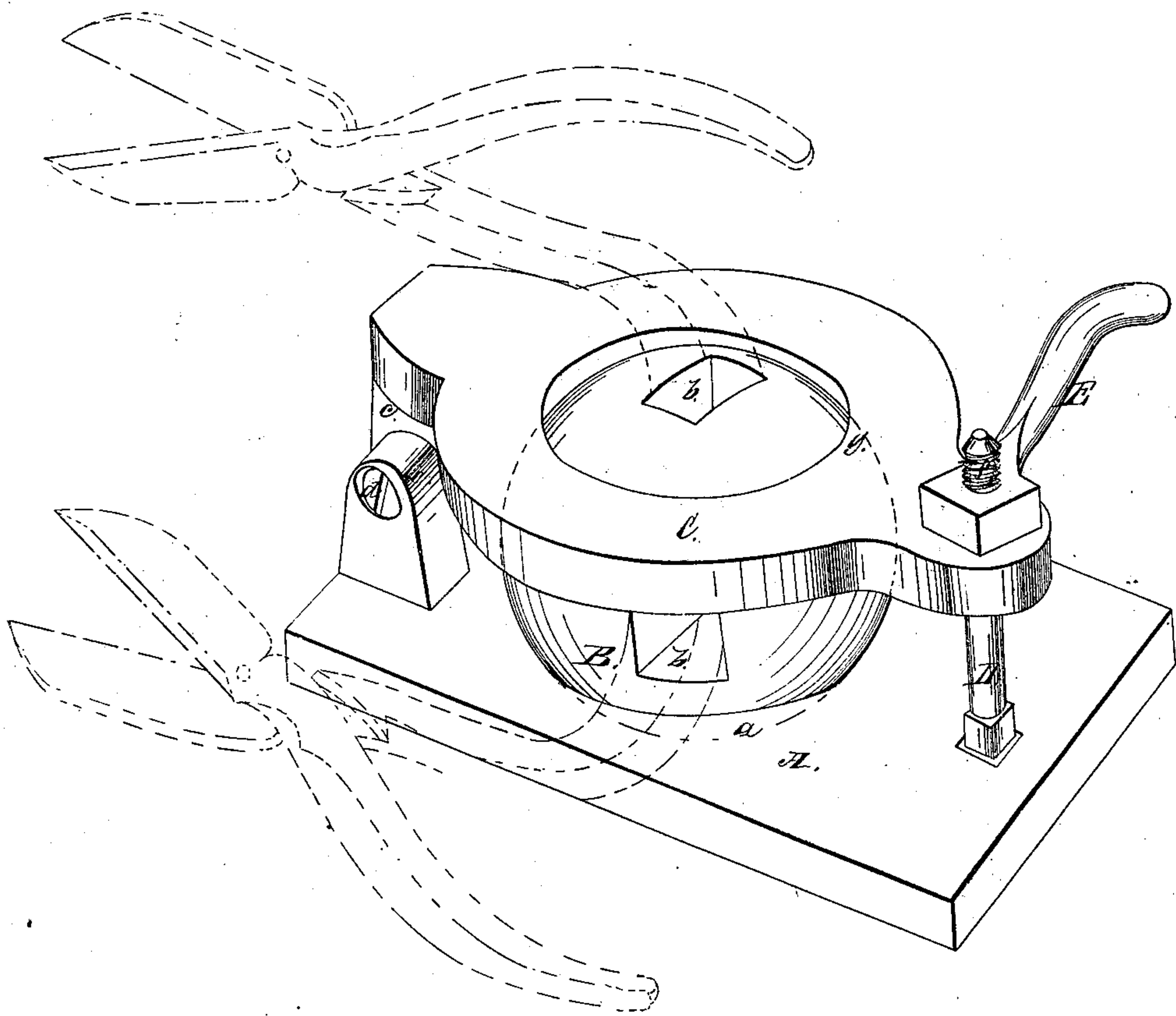


E. H. Camp,

Tinners' Tool.

N^o 44,395.

Patented Sep. 27, 1864.



Witnesses:

Ed. T. Hoff
Henry Davis

Inventor:
E. H. Camp
per *man* *H. C.*
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UNITED STATES PATENT OFFICE.

E. H. CAMP, OF JACKSON, MICHIGAN.

IMPROVED SHEAR AND STAKE HOLDER.

Specification forming part of Letters Patent No. 44,395, dated September 27, 1864.

To all whom it may concern:

Be it known that I, E. H. CAMP, of Jackson, in the county of Jackson and State of Michigan, have invented a new and Improved Shear and Stake Holder; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, said drawing representing a perspective view of my improvement.

The object of this invention is to facilitate tinmen and all workmen in metals in adjusting the position, supporting, and holding of the shear-shanks, stakes, and other tools.

The ordinary method of supporting and adjusting the said tools is to have a series of holes or cavities made in the upper surface of the work-bench. A special cavity is required for each different-sized shank, or for each different position in which the tool is to be placed. When the bench is too high or too low for the workman, it is necessary to alter the height of the bench.

By the use of my improvement the tinman is enabled to hold and adjust the position of shanks of the tools without having any cavities in the bench, and without changing the height thereof.

A is a base-plate, made of iron or other suitable material, to be securely fastened by any suitable means to the workman's bench. The central part of plate A is hollowed out or made with a depression, as shown at *a*, to form a socket for the reception of a movable ball, B, of iron or other material. This ball contains a series of different-sized cavities, *b*, for the reception and holding of the shanks of different-sized shears, stakes, or other tools. The ball B may be of any suitable size, and may contain any suitable number of cavities. The

ball B is clamped and firmly held in any desired position by means of a clamping-plate, C, the rear end of which is provided with lugs *c*, by which it is hinged at *d* to lugs *e*, which rise from plate A, as shown. The front end of the plate C is pressed and fastened down by means of a vertical screw-rod, D, which passes up from the under side of plate A through an aperture in the front end of plate C, above which is a hand-screw nut, E, which engages the screw-thread *f* on the upper end of rod D, as shown. The central part of plate C has an opening, *g*, the sides of which are beveled and form a socket for the reception of the upper part of ball B. By turning the nut E the plate C will be pressed down upon ball B, and the latter will be firmly clamped and held in whatever position may be desired.

The opening *g* in plate C permits the insertion of the tool-shank into the uppermost cavity of the ball B, and by adjusting the ball prior to clamping it the cavity may be so placed as to give the tool and its shank such a position, either vertical or inclined, as may be suitable for the work to be done. The height of the tool may also be varied in the same manner to suit the workman.

I do not confine myself to the use of the screw-rod, nor to any particular form of device for locking or hinging the plates.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The employment of a ball shank-holder, operating in the manner and for the purpose herein shown and described.

2. The combination of the ball shank-holder with the plates A C, substantially in the manner herein shown and described.

E. H. CAMP.

Witnesses:

C. S. PRATT,

CHAS. B. HALLETT.