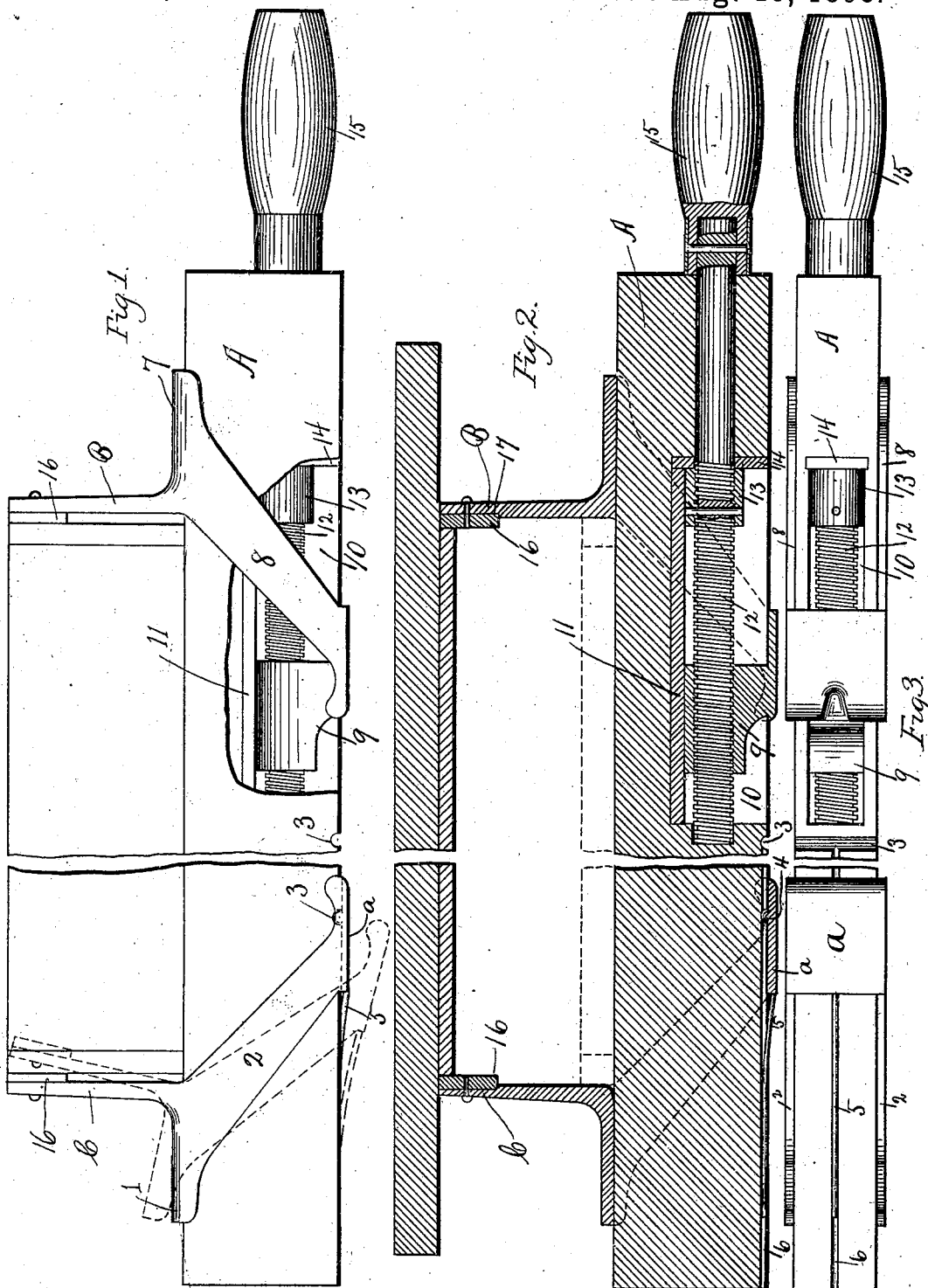


(No Model.)

W. H. DANA.
CLAMP.

No. 503,125.

Patented Aug. 15, 1893.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM H. DANA, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE CHICAGO CLAMP COMPANY, OF SAME PLACE.

CLAMP.

SPECIFICATION forming part of Letters Patent No. 503,125, dated August 15, 1893.

Application filed March 4, 1892. Serial No. 423,786. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. DANA, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Clamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a novel construction in clamps, and more particularly to a novel construction in clamps for cabinet makers' work.

The objects of this invention are to provide a clamp that can be used with equal facility for case, glue and panel work, and to provide a clamp possessing great efficiency and combining therewith simplicity and durability of construction.

The invention consists in the features of construction and combinations of parts hereinafter fully described and specifically claimed.

In the accompanying drawings illustrating my invention,—Figure 1 is a side elevation of a clamp constructed in accordance with my invention, with parts broken away for convenience of illustration. Fig. 2 is a vertical longitudinal section. Fig. 3 is a bottom plan.

Referring to said drawings A indicates a bar upon which the clamping jaw B and sliding jaw C are supported. The said bar A can be of any length and is shown as broken away for convenience of illustration. The clamping jaw B is movable to a limited extent back and forth, by means of suitable devices and the sliding jaw C is adjustable upon the bar A to adapt the clamp for use upon pieces of varying lengths. The clamp C is provided with a projection 1 that rests upon the upper edge of the bar A and with an arm 2 that extends to the lower edge of the bar and is inclined forward or projects in an opposite direction to the projection 1. The lower end of said arm 2 is provided with a foot *a* located beneath the lower face of the bar and provided with a transverse rib or ridge 4. In the construction shown said jaw C is provided with a bifurcated or two part arm 2, said parts embracing the bar and joined to said foot *a*

on either side. The lower face of the bar is provided with a plurality of transverse notches 3 that are adapted to receive said rib or ridge 4 on the inner face of the foot *a*. The said foot is provided with a rearwardly projecting spring 5 that enters a longitudinal groove 6 in the lower face of the bar, and the tension of said spring 5 serves to hold the foot up against the bar with the jaw C at right angles to the upper face thereof. It will be readily seen that when it is desired to move the jaw along the bar, it is only necessary to throw the foot *a* away from the lower face of the bar A to remove the rib 4 from the notches 3, as shown in Fig. 1 in dotted lines. This can be accomplished by pressing the jaw C forward which throws said foot away from the lower face of the bar against the tension of said spring 5. The jaw can then be moved to the desired position and when released said spring will restore it to its normal position with the rib 4 engaging one of the notches 3.

The clamping jaw B is also provided with a projection 7 that rests upon the upper edge of the bar A and with an arm 8 that is conveniently bifurcated, said bifurcated portions being located on either side of said bar. The said arm extends to the lower edge of the bar and is provided at its lower end with an upwardly projecting nut 9 that is located within a recess 10 in said bar and rests and slides against a metallic guide or rest 11 in the rear part of said recess. A screw threaded rod 12 passes through an opening in the end of said bar A and through said recess and nut 9. The said rod is prevented from endwise movement by means of a collar 13 that is secured thereto and located within said recess 10 and that bears upon a metallic plate 14 located and secured at the end of said recess. The outer end of said rod is provided with a handle 15 rigidly connected therewith and bearing against the end of said bar to prevent an inward movement of said rod. It will thus be seen that by turning the rod 12 the clamping jaw B will be moved back and forth in an obvious manner.

In operation when it is desired to clamp a piece, the sliding jaw is moved to the desired position and the handle 15 turned to bring

the clamping jaw against the piece as will be obvious. In Fig. 1 the clamp is shown as used in "case work," while in Fig. 2 in dotted lines, a piece of work is held by the jaws in what is known as "glue work," while in full lines in Fig. 2 pieces of "paneled work" are shown as held by my improved clamp, and a person skilled in the art to which my invention relates will readily understand the efficiency and capabilities thereof.

As a further and separate improvement the jaws of my clamp are provided on their inner faces with cushions 16 of yielding material, conveniently secured within recesses 17 therein. By reason of these yielding cushions, finished or irregular surfaces can be readily clamped without injury.

I claim as my invention—

1. In a clamp, a bar, having a longitudinal recess in its lower face, a sliding jaw; a clamp-

ing jaw having an arm extending to the lower edge of said bar and provided with an upwardly extending nut located within said recess in said bar, and a revoluble screw threaded rod engaging said nut.

2. In a clamp, a bar having a longitudinal recess in its lower face, a sliding jaw, a clamping jaw having a bifurcated arm embracing the sides of said bar and extending to the lower face of the bar and carrying a nut at its lower end that extends upwardly into said recess, and a revoluble screw-threaded rod engaging said nut.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. DANA.

Witnesses:

HARRY COBB KENNEDY,
OTTO LUEBKERT.