

H. V. HOLMAN.
CLAMP.
APPLICATION FILED MAY 9, 1921.

1,403,958.

Patented Jan. 17, 1922.

Fig. 1

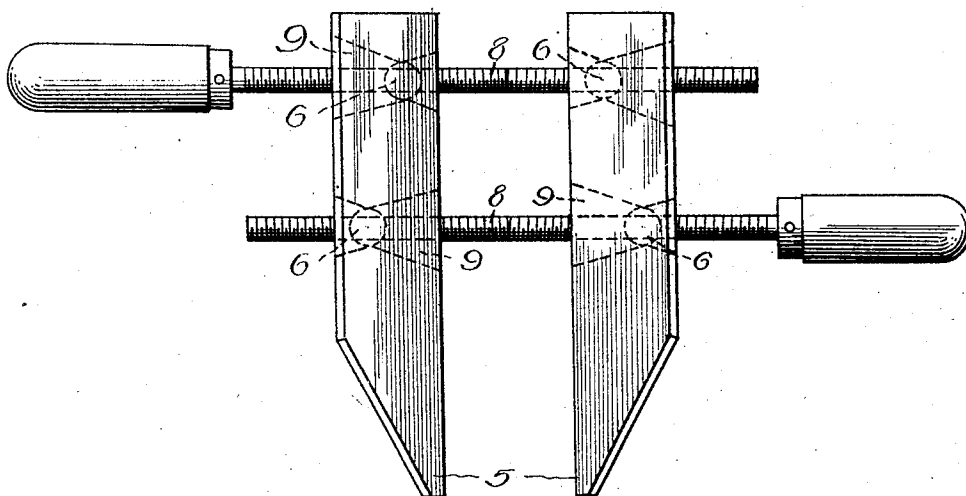


Fig. 3

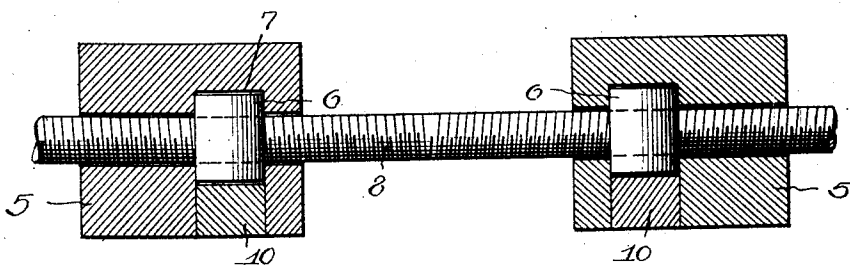
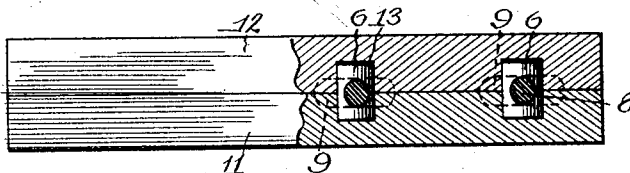


Fig. 2

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UNITED STATES PATENT OFFICE.

HARRY V. HOLMAN, OF CHICAGO, ILLINOIS.

CLAMP.

1,403,958.

Specification of Letters Patent. Patented Jan. 17, 1922.

Application filed May 9, 1921. Serial No. 468,091.

To all whom it may concern:

Be it known that I, HARRY V. HOLMAN, a citizen of the United States of America, and resident of Chicago, Cook County, Illinois, have invented a certain new and useful Improvement in Clamps, of which the following is a specification.

My invention relates to an improvement in clamps particularly of the type employed by cabinet makers, and is in the nature of an improvement on the type of clamp shown in the patent to Jorgensen, Number 687,836 issued December 3, 1901.

The object of my invention is to provide a clamp of increased strength and durability and also to improve the outward appearance of said clamp.

These and other features and objects of my invention will be more readily understood by having reference to the accompanying drawings, in which—

Figure 1 is a side elevation of my improved clamp.

Fig. 2 is a transverse sectional view.

Fig. 3 is a plan view of one of the jaws showing a slightly modified construction.

As illustrated, the clamp consists of a pair of jaws 5. Each of these jaws is bored laterally at corresponding points to receive two cylindrical nuts 6, 6. Each of these nuts is bored and tapped transversely at their middle portion to receive the right and left threaded rods 8 which pass through transverse openings 9 in the jaws, these openings being of flaring shape to permit pivotal movement of said rods. The transverse openings in which the bearing nuts 6 are journaled do not extend entirely through the jaw as in the prior Jorgensen patent, but merely extend from one side of the jaw to a point sufficiently beyond the transverse opening 9 in the jaw to provide sufficient bearing area for the nuts. The nuts likewise after being inserted in the jaw do not extend to the surface of the same, and the space over the outer end of the nuts is closed by a wooden plug 10 which is glued into the opening, the outer surface of this plug being flush with the surface of the jaw thus presenting a neat appearing clamp. This construction greatly increases the strength of the jaw as it is found where the transverse

bore for the nut extends entirely through the jaw that the jaw is weakened at this point. By merely having the bore extend partly through the jaw, the strength of the same is not weakened to such an extent and the wooden plug, which is glued into the jaw, becomes in effect an integral part of the jaw.

In Fig. 3, I have shown a slightly modified form of my construction in which the jaws are formed of two parts 11 and 12 which are provided with suitable recesses 13 for receiving the nuts 6. The nuts can first be inserted in place in these recesses, and then the two parts of the jaw glued together. With this construction I avoid the necessity of using the wooden plugs 10 as the transverse openings do not extend to either of the outside surfaces of the jaw.

It will thus be seen that I have devised a clamp of the type described of increased strength, and while I have illustrated and described certain specific embodiments of my invention, it will be understood that I do not wish to be limited to the exact construction shown and described, but that various changes and modifications may be made without departing from the spirit and intent of my invention.

What I claim as my invention is:

1. In a clamp, the combination of two relatively movable jaws, a pair of cylindrical nuts journaled within each of said jaws and terminating a substantial distance from either of the surfaces of said jaws, the material of said jaw extending over and covering both ends of said bearing nuts, lateral screw-threaded openings in said nuts, lateral flaring openings in said jaws registering with said openings in said nuts, and screw-threaded rods passing through said openings in said jaws and said nuts and engaging the latter to operate said jaws.

2. In a clamp, the combination of two relatively movable jaws, a pair of transverse cylindrical openings in each of said jaws, each of said openings extending from one surface of said jaws and terminating a substantial distance from the opposite surface thereof, cylindrical nuts journaled in said openings, the outer end of said nuts terminating a substantial distance from the outer end of said transverse opening, wooden

plugs inserted within said openings over the ends of said bearing nuts, lateral screw-threaded openings in said nuts, lateral flaring openings in said jaws at right angles to said first-mentioned transverse openings and registering with the openings in said nuts, and threaded rods passing through

said lateral openings in said jaws and said nuts and engaging the latter to operate said jaws.

Signed by me at Chicago, Illinois, this 3¹⁰ day of May, 1921.

HARRY V. HOLMAN.