No. 825,171. PATENTED JULY 3, 1906.

A. ANDERSON.

CLAMP.

APPLICATION FILED APR. 18, 1906.

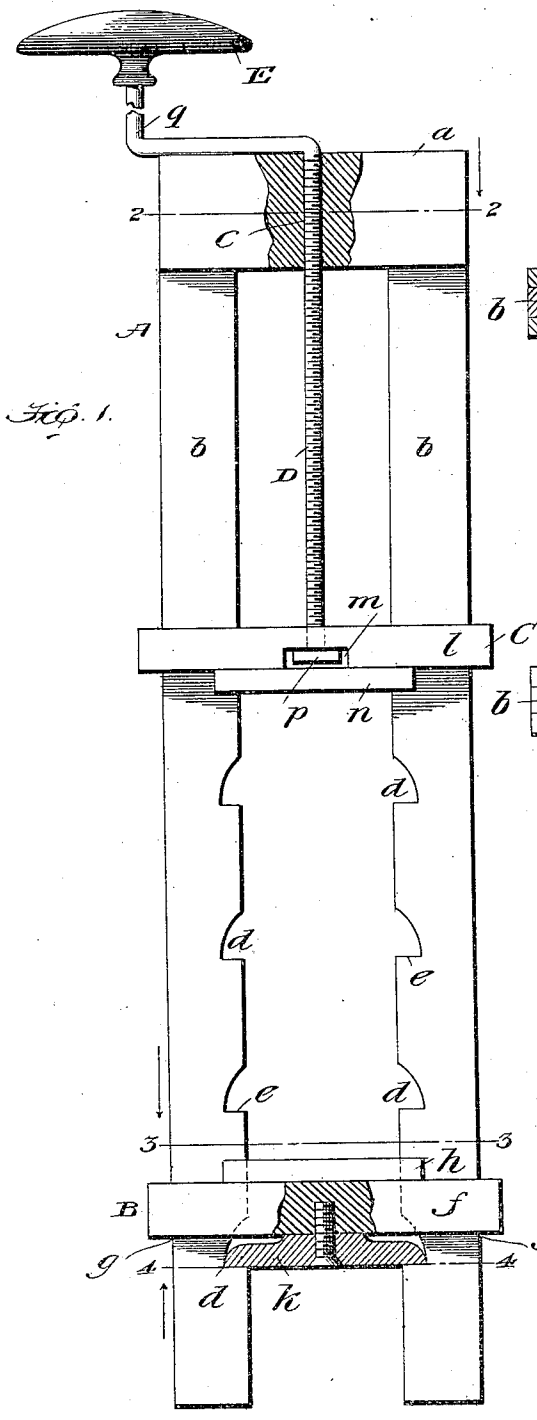


Fig. 1.

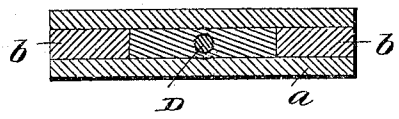


Fig. 2.

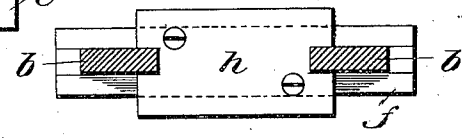


Fig. 3.

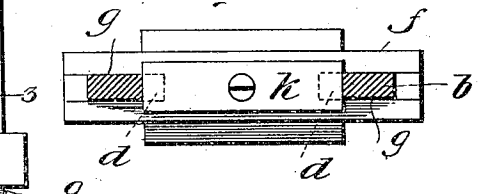


Fig. 4.

Witnesses

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CLAMP.

No. 825,171. Specification of Letters Patent. Patented July 3, 1906.

Application filed April 18, 1906. Serial No. 312,429.

To all whom it may concern:

Be it known that I, AUGUST ANDERSON, a citizen of the United States, residing at Birmingham, in the county of Jefferson and State of Alabama, have invented new and useful Improvements in Clamps, of which the following is a specification.

My invention pertains to clamps for use in the joining of two or more pieces of wood through the medium of glue or the like; and its object is to provide a simple and strong clamp adapted to be operated with facility and constructed with a view of assuring the proper joining of the parts comprised in a table, a counter-top, or other wide device without liability of the parts or the device as a whole warping during the setting of the glue.

With the foregoing in mind the invention will be fully understood from the following description and claims when the same are read in connection with the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation of my novel clamp with certain of the parts in section. Fig. 2 is a transverse section taken in the plane indicated by the line 2 2 of Fig. 1 looking downwardly. Figs. 3 and 4 are transverse sections taken in the planes indicated by the lines 3 3 and 4 4, respectively, of Fig. 1 looking in the directions of the respective arrows.

Similar letters designate corresponding parts in all of the views of the drawings, referring to which—

A is the main frame of the clamp, which is preferably made of steel, and comprises a head *a* and parallel side bars *b*, fixed to and extending at right angles from the head. In the head *a* is a longitudinally-disposed and central threaded aperture *c*, while in the inner edges of the side bars *b* at intervals in the length thereof are opposite notches *d*, the lower walls *e* of which are arranged at right angles to the frame A, so as to form safe supports for the work support or rest presently described.

B is the work support or rest of the clamp as a whole. The said work support or rest is made up of a body *f*, preferably of steel, having apertures *g* snugly receiving the side bars *b*, a block of wood *h*, secured on the upper side of the body *f*, so as to prevent scratching or marring of the work and having bifurcations in its ends receiving the inner edges of the side bars *b*, and a fastener *k*, pivoted to the under side of the body *f* and arranged to rest on the lower walls *e* of the notches *d* in the frame-bars *b* and in that way maintain the work support or rest in the position in which it is placed in the frame A. When the fastener *k* is turned to a position at an angle to that shown in Figs. 1 and 4, the work support or rest B may obviously be adjusted on the frame A in the direction of the length thereof, and therefore in order to lessen the liability of the fastener casually moving from the position stated I make the fastener *k* heavy in proportion, so that it will tend to remain in the position in which it is placed. In this connection it will be apparent that when the clamp is in use and work is pressed against the support B the fastener *k* is crowded against the walls *e* of the particular notches *d* in which it is placed, and hence at that time there is no liability of the fastener casually moving and disengaging itself from the notches *d*.

C is the follower or work-holding member of the clamp. The said follower or work-holding member comprises a body *l*, preferably of steel, having a recess *m* in its under side and also having apertures snugly receiving the side bars *b* of the frame, and a block *n*, of wood or other approved material, secured to the under side of the body C and designed to serve the same purpose as the block *h*—*i. e.*, to prevent scratching or marring of the work while the same is in the clamp.

D is a screw swiveled at its lower end in the body of the follower or work-holding member C, as indicated by *p*, and bearing in the threaded aperture *c* in the frame-head *a* and terminating at its upper end in a crank *q*, and E is a handle, preferably of wood, rotatably arranged and secured on the upturned portion of the said crank *q*.

In the practical use of my novel clamp it will be apparent that when the screw D is turned through the threaded aperture *c* the follower or work-holding member C will be moved up or down, according to the direction in which the screw is rotated. It will also be apparent that by reason of the clamp-frame A having the two side bars there is no liability of the clamp springing when a wide piece of work is held therein, and consequently no liability of the piece of work warping while it is in the clamp.

It will further be apparent that, considered

as a whole, my novel clamp is strong and durable, and hence is well adapted to withstand the rough usage to which clamps are ordinarily subjected.

The construction herein shown and described is the preferred embodiment of my invention; but I would have it understood that in practice such changes or modifications may be made as fairly fall within the scope of my invention without involving departure from my claims.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination in a clamp, of a frame comprising side bars having notches at intervals in the length of their inner edges, a work support or rest mounted on the side bars of the frame and movable in the direction of the length thereof, a fastener pivoted to the under side of the work support or rest and arranged to be swung into and out of the notches in the side bars, a follower or work-holding member adjustable on the side bars of the main frame and toward and from the work support or rest, and means for adjusting and adjustably fixing the follower or work-holding member and connecting the said follower or work-holding member and the frame.

2. The combination in a clamp, of a metallic frame comprising a head having a central and longitudinally-disposed, threaded aperture, and side bars fixed to the head and having notches in their inner edges at intervals in their length the lower walls of which notches are square, a work support or rest adjustable on the side bars of the frame and comprising a metallic body having apertures snugly receiving said side bars, a fastener pivoted to the under side of the body and arranged to be swung horizontally into and out of notches in the side bars, and a block of wood fastened on the upper side of the body, a follower or work-holding member having a metallic body snugly receiving and adjustable on the side bars of the frame and also having a block of wood on the under side of the said body, and a screw swiveled in the follower or work-holding member and bearing in the threaded aperture in the head of the frame and having on its upper portion a handle.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

AUGUST ANDERSON.

Witnesses:
GEO. P. ROBERTS,
JOHN F. KNIGHT.