

UNITED STATES PATENT OFFICE.

NEWTON CLYDE BAILEY, OF TAMPA, FLORIDA.

SHIP-BUILDER'S CLAMP.

SPECIFICATION forming part of Letters Patent No. 754,115, dated March 8, 1904.

Application filed April 4, 1903. Serial No. 151,163. (No model.)

To all whom it may concern:

Be it known that I, NEWTON CLYDE BAILEY, a citizen of the United States, residing at Tampa, in the county of Hillsboro and State of Florida, have invented certain new and useful Improvements in Ship-Builders' Clamps, of which the following is a specification.

My invention relates to clamps for holding planks on vessels in building. As at present practiced holes are bored in the frame of the ship above the edge of the plank and pins inserted therein. Wedges are then driven between the pins and the edge of the plank to drive the plank against the secured plank. The plank is then secured by spikes and treenails, after which the wedges and pins are removed and the holes plugged up before the next course of planks are installed. This process is not only expensive, because of the time consumed in boring the pin-holes, inserting the pins and wedges, then removing the wedges and pins, and plugging up the holes, but the presence of the plugged holes tends to weaken the frame; and the object of my invention is to do away with the necessity of using pins and wedges, thus saving the time consumed by such process as well as not weakening the structure as aforesaid.

The construction and operation of my invention is fully set out hereinafter and in the accompanying drawings, in which—

Figure 1 is a view of a portion of a vessel, showing my invention in operation; Fig. 2, a top view of my clamp, and Fig. 3 a bottom view.

Referring to the drawings, in which similar reference characters indicate corresponding parts throughout the several views, A represents the beams comprising the frame of a vessel, and B the planks.

C represents the jaw portion of my clamp, consisting of a block D, having secured thereto or integral therewith the fixed jaw E, while F represents the movable jaw slidably mounted

in grooves in said block D. H represents a screw-rod mounted in a screw-threaded bore in ear I on said jaw E and journaled in block D to actuate said jaw F. J represents a screw-plunger mounted in said block D, having on one end a head K, revolvably mounted on the end of said plunger. On the other end of said plunger is loosely mounted a lever L, having pawls M to intermember with the teeth of ratchet-wheel N, secured to the end of said plunger.

In operation my clamp is fastened to a frame-piece above the plank to be secured and the lever L operated in connection with ratchet-wheel N to push the board into place.

Having thus described my invention, what I claim is—

1. In a clamp, a block having a screw-threaded bore, a jaw rigidly mounted on said block, a jaw slidably mounted on the block, an ear on said jaw, a screw-rod mounted in a screw-threaded bore in said ear and journaled in the block, and a screw-plunger intermembering with the screw-threaded bore in the block, having a plunger-head on one end and an actuating means on the other end, substantially as shown and described.

2. In a clamp, a block, a jaw rigidly mounted thereon, a jaw slidably mounted on the block, an ear on said jaw, a screw-rod mounted in a screw-threaded bore in said ear and journaled in the block, a screw-plunger mounted in a screw-threaded bore in the block, a lever loosely mounted on said plunger, a ratchet-wheel keyed on said plunger, and pawls mounted on said lever to intermember with said ratchet-wheel, substantially as shown and described.

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

NEWTON CLYDE BAILEY.

Witnesses:

ROBERT F. GLEN,
E. B. DRUMRIGHT.