T. E. MAZIER.

PLANKING CLAMP.

APPLICATION FILED MAY 10, 1918.

1,284,124. Patented Nov. 5, 1918.

Fig. 1.

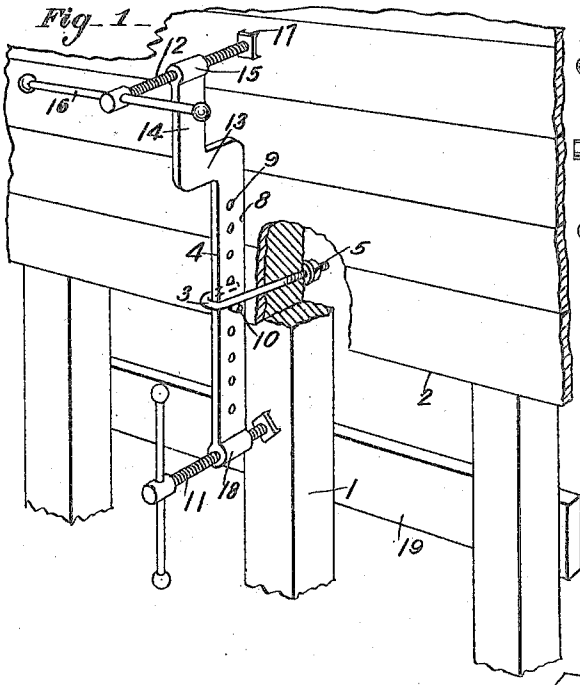


Fig. 2.

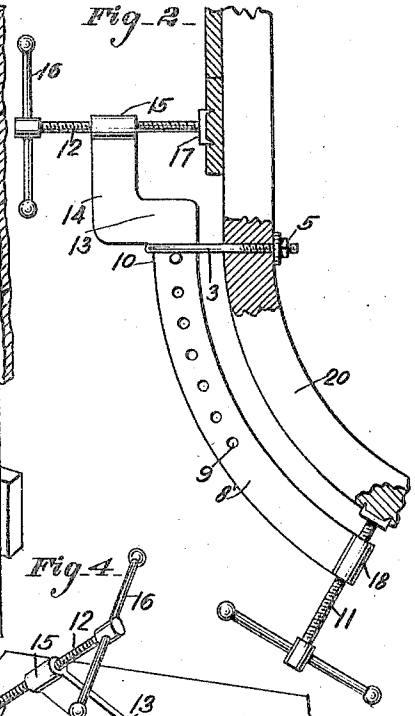


Fig. 4.

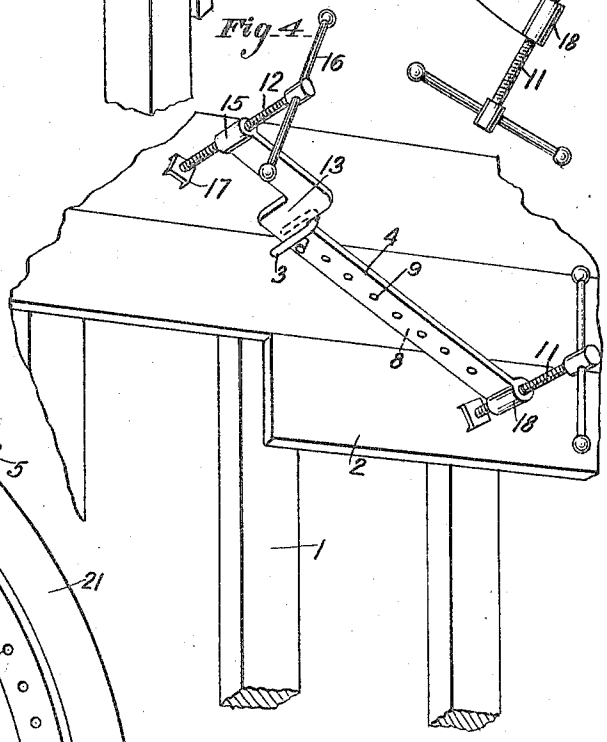


Fig. 3.

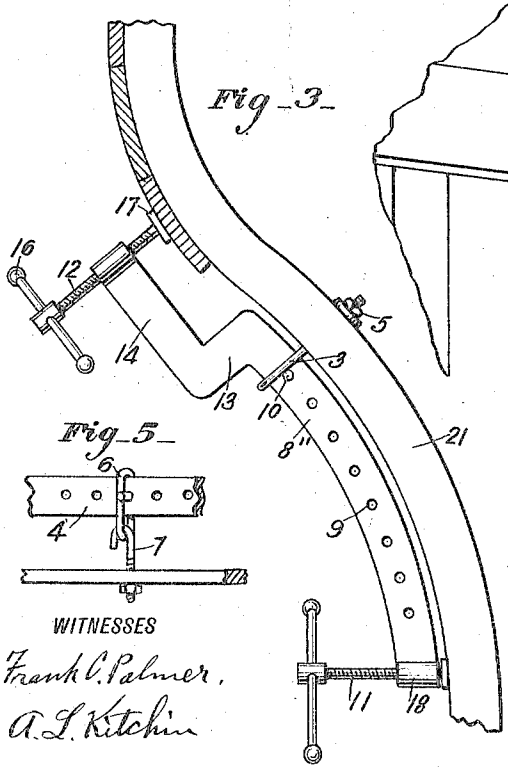


Fig. 5.

WITNESSES

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PLANKING-CLAMP.

1,284,124. Specification of Letters Patent. Patented Nov. 5, 1918.

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To all whom it may concern:

Be it known that I, TEOFILO E. MAZIER, a citizen of the Republic of Honduras, and a resident of Guanaja, I. B., Republic of Honduras, Central America, have invented a new and Improved Planking-Clamp, of which the following is a full, clear, and exact description.

This invention relates to clamping devices and has for an object the provision of an improved device for clamping planks in position on a ship or any other structure and holding the same in place while permanent securing means are provided.

Another object is the provision of a clamp which may be mounted substantially at any point on a ship or other structure for holding a plank or other article in position temporarily.

A still further object of the invention is the provision of a clamp having an adjustable screw member at the ends, a removable anchoring member slidingly positioned on the body so that the end members may properly press against either a fulcrum or an article to be held in place, the structure being such as to hold an article in place on a flat surface, a concave, or a convex surface.

In the accompanying drawing:

Figure 1 is a fragmentary perspective view of the side of a ship with an embodiment of the invention shown applied thereto.

Fig. 2 is a fragmentary sectional view through part of the side and bottom of a ship showing a slightly modified form of the invention applied thereto.

Fig. 3 is a view similar to Fig. 2, but showing a further modified form of the invention wherein the device is adapted to operate on a concave surface.

Fig. 4 is a perspective view illustrating the clamp shown in Fig. 1, but showing the same in a different position.

Fig. 5 is a detail fragmentary perspective view showing a slightly modified form of anchoring means.

Referring to the accompanying drawing by numerals, 1 indicates the ribs of a ship to which the planking 2 is to be connected. It is, of course, understood that the device may be used on the side of a ship or on the decks for holding the planking in place while receiving the permanent fasteners. As shown in Fig. 1 a hole is bored through one of the ribs and also through one of the planks 2 so that the anchor hook 3 may fit over the body 4 of the clamp. Said anchor hook is threaded at one end and provided with a nut 5 for holding the same in place. Instead of providing the hook structure a ring 6, as shown in Fig. 5 may be used and then the anchor hook 7 utilized, which is interlocked with ring 6 at any desired point along the body 4.

In Fig. 1 the body 4 is provided with a comparatively long section 8 having apertures 9 for receiving the steadying or holding pin 10 for holding the body in position while the clamping screws 11 and 12 are being tightened. The section 8 merges into a right angle section 13 which in turn merges into a short auxiliary section 14 parallel with section 8. The section or shoulder 13 acts to prevent falling of the body beyond a predetermined extent. The end of section 14 is provided with an internally threaded enlargement 15 which accommodates the screw 12 whereby whenever the handle 16 is rotated the screw will be moved longitudinally according to the direction of rotation. A suitable foot 17 is provided on the end of screw 12, said foot being loosely mounted so as to remain stationary while the screw rotates, said structure being old and well known. This foot may be smooth or may have spurs for preventing slipping. One end of section 8 is provided with an enlargement 18 which has a threaded bore for accommodating the screw 11 in a similar way to the way the end of member 15 accommodates screw 12. The screw 11 carries a foot 17 formed with spurs or without spurs as preferred. As shown in Fig. 1 the device is in a position for receiving another plank 2. In providing planking for ships, and also for other structures, it is necessary to force, in some manner, the plank to a proper position and then hold the same in that position while permanent securing means are applied. This holding operation is more or less difficult, as a slight slipping often occurs, which, in the case of ships, is very objectionable. By providing a number of the clamps as shown in Fig. 1 the planks may be placed in the proper position and held against any slipping or displacement while holes are being provided therein, and while proper screws or other securing means are supplied.

The device may be shifted whenever necessary, and to do this a new hole is provided in one of the ribs 1 or in one of the planks, or

if desired in a temporary plank 19, or beam placed on the ribs, or on some other part of the ship or other structure being operated upon. The clamp may be used at right angles to the planking 2 as shown in Fig. 1, or may be used almost parallel thereto as shown in Fig. 4 without changing the position of the structure or any of the parts except at the angle of the body 4. It will be, of course, evident that the clamp may be of any size and also that section 8 may be of any length and thereby permit the clamp to act on a number of planks before it is necessary to move the anchor bolt 3.

In certain parts of ships and other structures there is a curved surface, as for instance the bottom 20 of the ship as shown in Fig. 2. In order to better accommodate the clamp for this form of structure the clamp is provided with a curved section 8′ conforming substantially to the curve of the bottom 20. The remaining parts of the clamp are the same as the preferred structure. In Fig. 3 the same idea is carried out except that the section 8″ is curved in a reverse direction for fitting a concave bottom 21. It is evident that other forms may be provided without departing from the spirit of the invention while using the principle of an anchoring bolt or ring coacting with a body and clamping screws at the end of the body or at spaced intervals.

What I claim is:

A clamping device comprising a body formed with a threaded opening adjacent each end extending from one edge of the body to the other, a clamping screw arranged in each of said threaded openings, said body being offset near one end for producing a shoulder and formed with a plurality of pin receiving openings extending at right angles to the threaded openings, an anchoring member slidingly mounted on said body between said shoulder and one of said screws, and a pin insertible in any of said last mentioned openings whereby the sliding movement of the body on the anchoring member is limited in one direction by the shoulder and the other by the pin so that the device will not move an appreciable distance out of place when released for receiving another article to be clamped.

TEOFILO E. MAZIER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."