

No. 632,930.

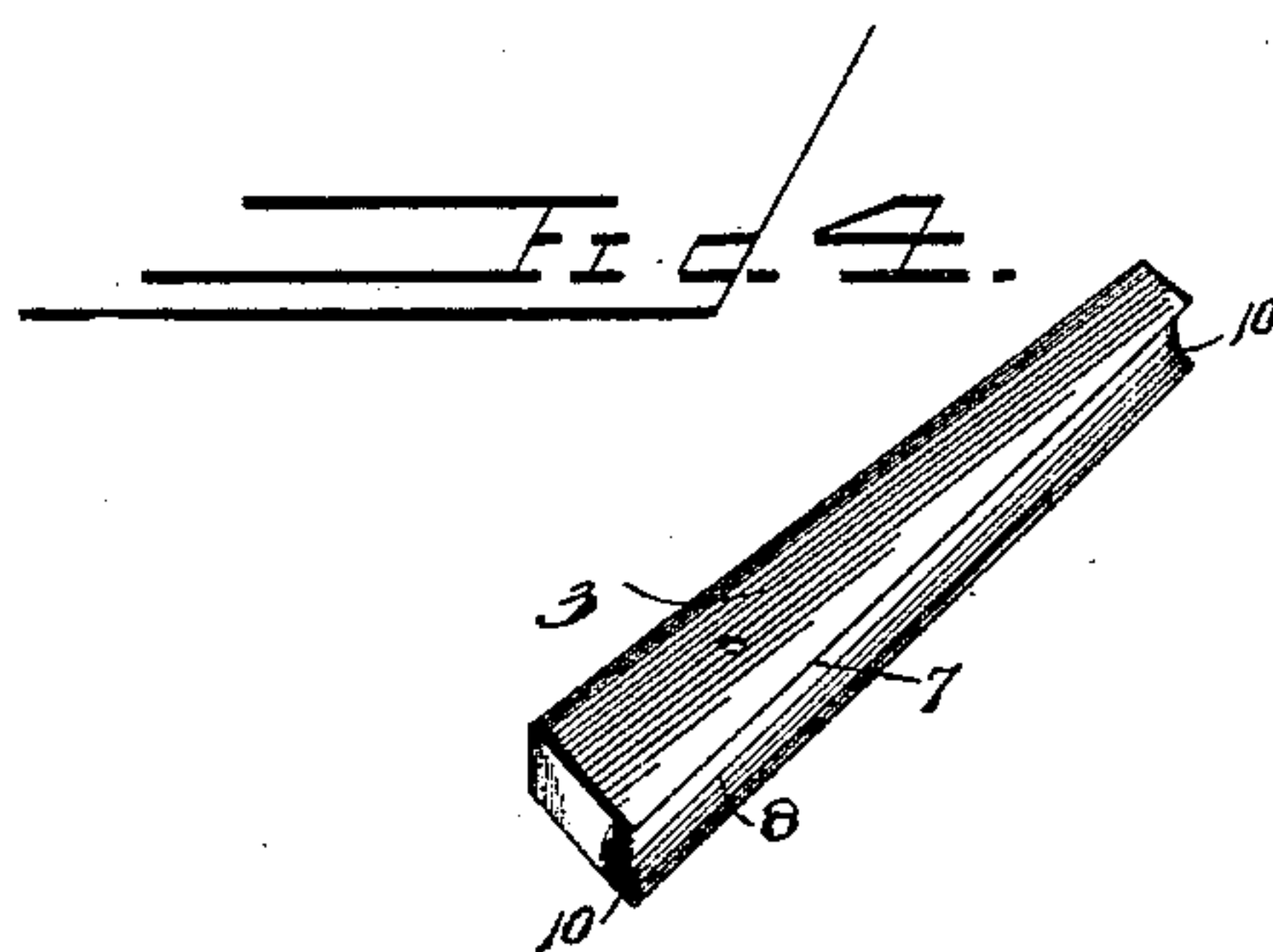
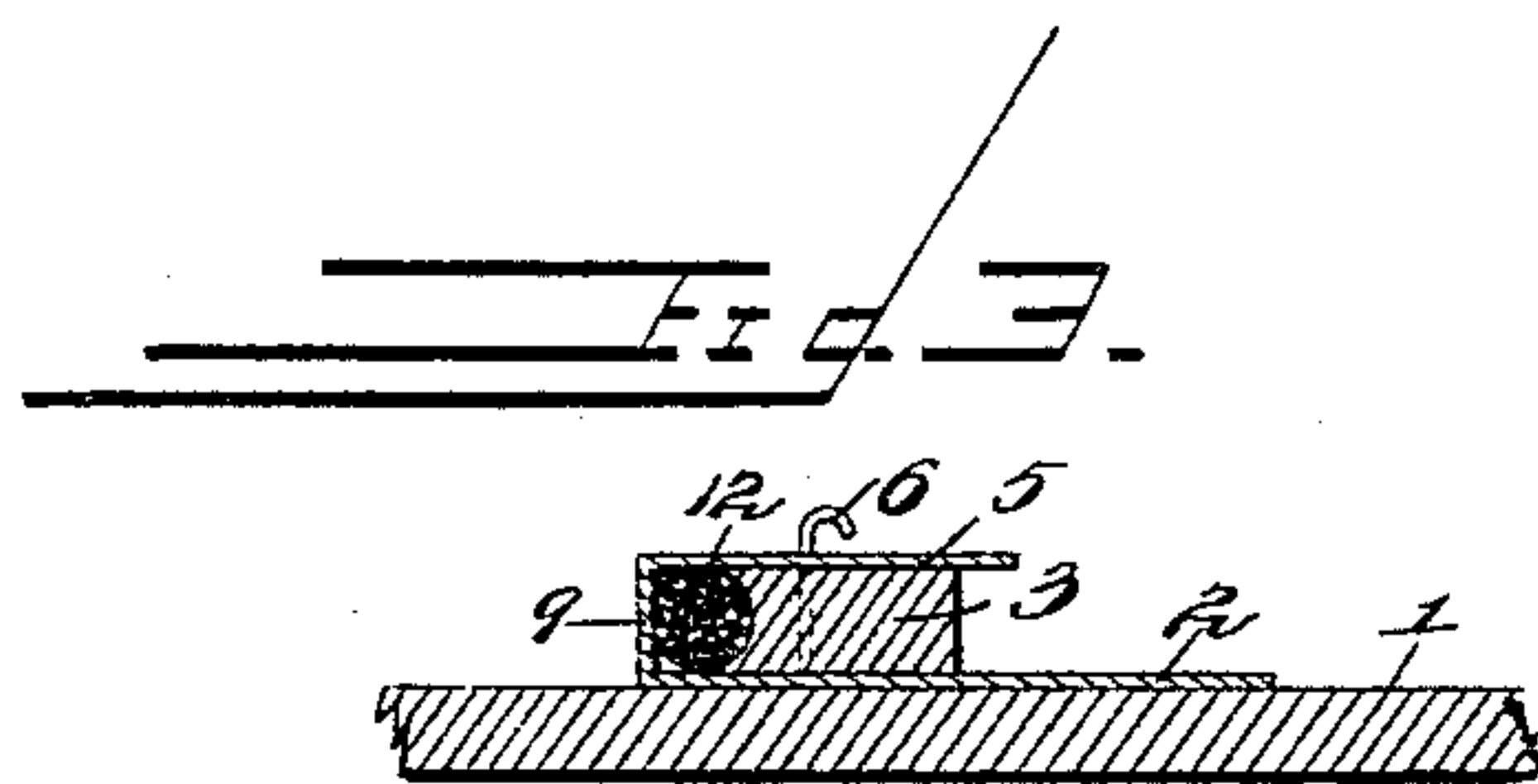
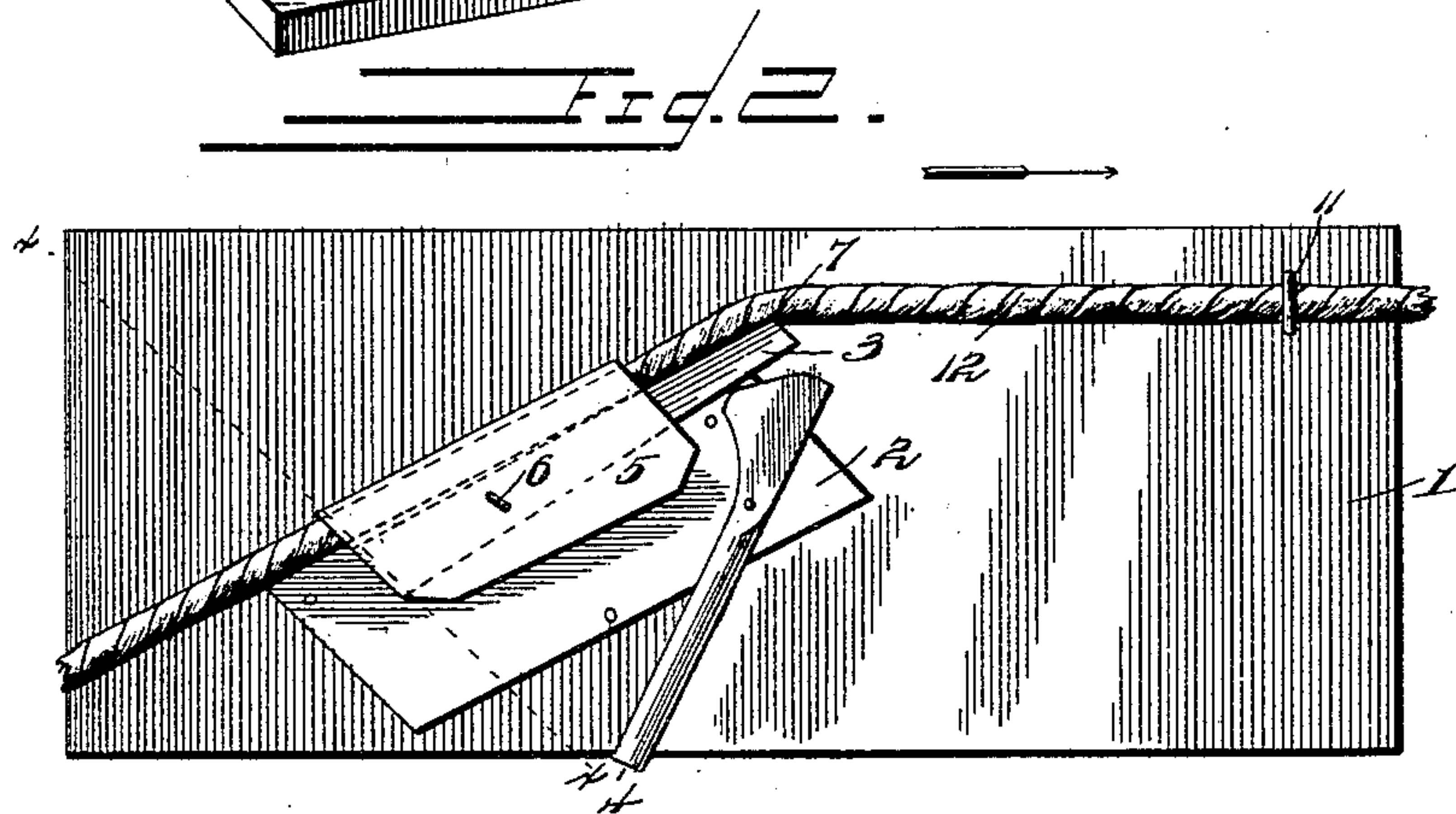
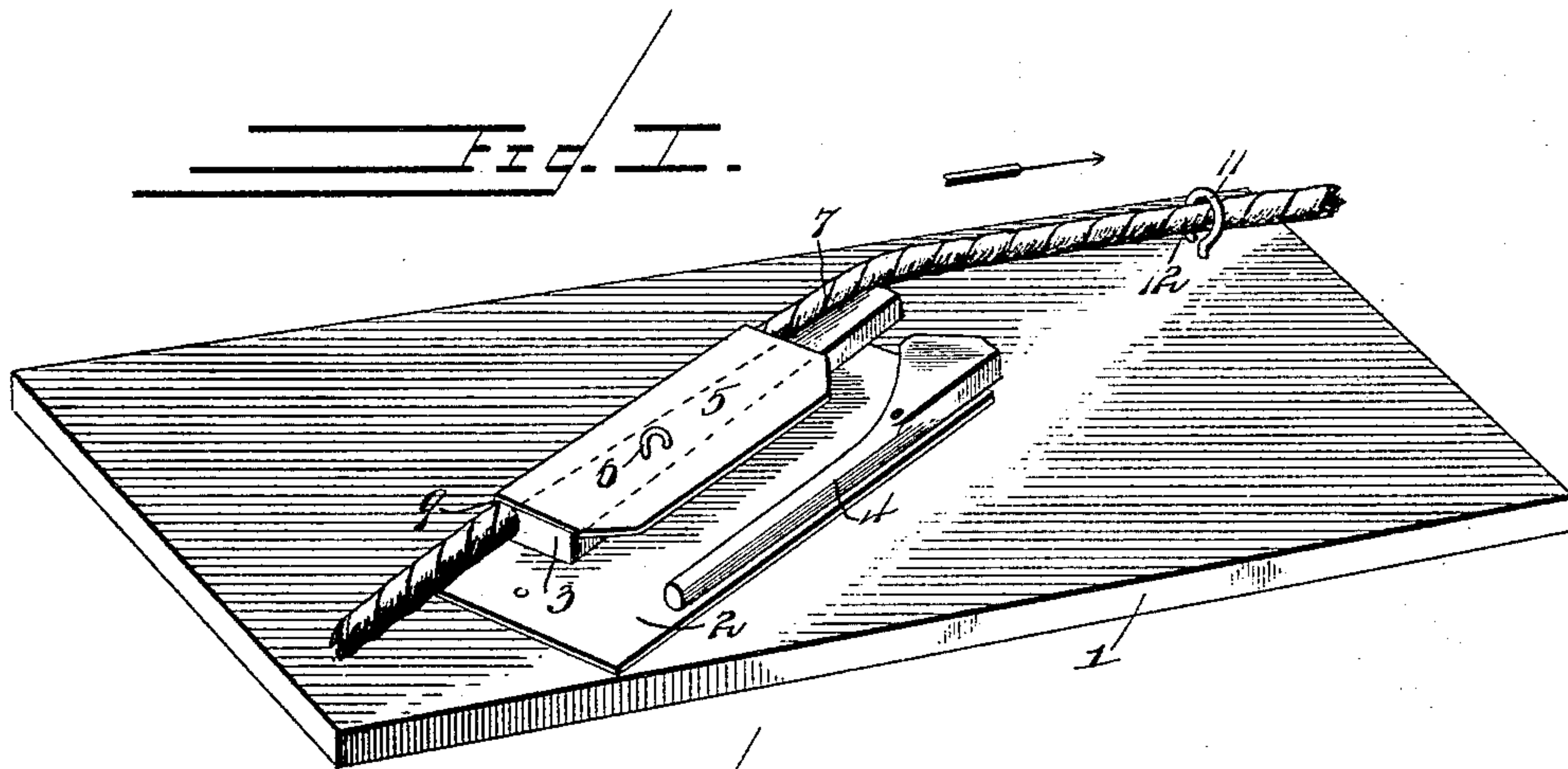
Patented Sept. 12, 1899.

J. G. WARDELL.

ROPE CLAMP.

(Application filed June 6, 1898.)

(No Model.)



Witnesses

R. Shepard
O. B. Shepard

By *his* Attorneys,

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UNITED STATES PATENT OFFICE.

JOHN G. WARDELL, OF EAST TAWAS, MICHIGAN, ASSIGNOR OF ONE-HALF
TO ANTHONY MILLER, OF SAME PLACE.

ROPE-CLAMP.

SPECIFICATION forming part of Letters Patent No. 632,930, dated September 12, 1899.

Application filed June 6, 1898. Serial No. 682,722. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. WARDELL, a citizen of the United States, residing at East Tawas, in the county of Iosco and State of Michigan, have invented a new and useful Rope-Clamp, of which the following is a specification.

This invention relates to improvements in rope-clamps, and is designed for use aboard vessels, for clothes-lines, and for holding ropes generally.

The object of the present invention is to provide a simple and effective device of this character embodying a lever pivoted intermediate its ends and forming a clamp arranged within a suitable casing and a releasing-lever therefor whereby the rope may be quickly relieved from the pressure of the clamp to obtain any "slack" or for entirely removing the rope.

Further objects and advantages of these improvements will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of the invention applied in use. Fig. 2 is a top plan view thereof with the clamp released. Fig. 3 is a transverse sectional view taken on the line *xx* of Fig. 2. Fig. 4 is a detail perspective view of the pivoted clamp.

Corresponding parts in the several figures are denoted by like characters of reference. Referring to the drawings, 1 designates a surface upon which the device is to be mounted. 2 designates a metallic plate suitably secured to the surface 1 and carries the pivoted clamp 3 and the releasing-lever 4. The clamp 3 is pivoted within an overhanging flange 5, formed by bending a portion of the plate 2 back upon itself, and held therein by means of a removable pivot 6. This clamp 3 is a lever having the inclined edge 7 grooved throughout its length, as at 8, and the inclined edge arranged toward the inner wall 9 of the flange 5, having the pivot-pin 6 arranged at about the center of the flange 5, but passing through the clamp to one side of its center through the wider portion thereof, which extends the other end a suitable dis-

tance beyond the flange. Both extremities of the clamp are rounded, as at 10, to prevent unnecessary chafing of the rope.

In the operation of the device the plate 2 is arranged at an angle to the strain upon the rope, which is in the direction indicated by the arrow, and the rope preferably passed through an eyebolt 11, disposed so as to guide the rope diagonally across the outer end of the clamp 3. When any strain is placed upon the rope 12 in the direction of the arrow, pressure is applied upon the outer end of the longer arm of the clamp 3, which draws the shorter and wider arm against the rope and clamps the same tightly against the inner wall of the flange 5, and thus securely holds the rope from slipping. To release the rope, it is simply necessary to throw the cam-lever 4, pivoted to the plate 2 and alongside of the clamp, against the outer edge of the clamp, as shown in Fig. 2, which forces the clamp to assume a position with its inclined edge parallel with the inner wall of the flange and relieves the rope, so that it may be easily drawn in either direction. It will be understood that the clamp 3 is arranged so as to allow the rope to pass freely between the inner wall of the flange and the inclined edge of the clamp when no strain is upon the rope or when the releasing-lever forces the clamp into the position shown in Fig. 2.

The base-plate of this invention is designed to be of metal; but the eccentric clamp and releasing-lever may be of either wood or iron.

The arrangement of the clamp 3 within the flange 5 allows of a rope being quickly reeved therebetween, while the mounting of the releasing-lever entirely independent of the clamping parts and not normally subject to the strain of the rope requires but a slight pressure thereon to quickly release the clamp. These features all combine to make the present invention a simple and highly practical device, which, being capable of various changes in its form, proportion, and minor details without departing from the spirit and scope or sacrificing any of the advantages thereof, I do not wish to be understood as limiting myself to the precise construction and arrangement as herein shown and described.

Having thus described the invention, what

is claimed, and desired to be secured by Letters Patent, is—

1. A rope-clamp comprising a base-plate, a flange or gripping-surface at one side thereof, 5 a clamping-lever pivoted intermediate of its ends to the base-plate and having one end adapted to cooperate with the flange to clamp the rope, and a separate releasing-lever pivoted in operative relation to the clamping- 10 lever and adapted to engage the end of the same opposite the clamping end thereof, whereby the said lever may be released, substantially as shown and described.

2. A rope-clamp comprising a base-plate, 15 an overhanging flange at one side thereof, a clamping-lever pivoted intermediate its ends to the flange, said lever being arranged with its long arm extending beyond the flange and having its clamping edge provided with a 20 groove receiving the rope, and a releasing cam-lever pivoted to the base-plate and adapted to bear against the outer edge of the long arm of the clamping-lever, substantially as shown and described.

25 3. In a rope-clamp, the combination with a base-plate and an overhanging flange, of a clamping-lever pivoted intermediate its ends between the base-plate and the flange, having

its long arm extended beyond the flange and adapted to clamp the rope between the inner 30 wall of the flange and the short arm of the clamping-lever, a releasing cam-lever pivoted to the base-plate alongside of and adapted to bear against the outer edge of the long arm of the clamping-lever, near the free end thereof, 35 and a guide for the rope arranged to bring the tension diagonally across the free end of the long arm of the clamping-lever, substantially as shown and described.

4. A rope-clamp, comprising a base, a flange 40 or support, a clamping-lever pivoted intermediate its ends to the flange, said lever arranged with the long arm extending beyond the flange, and a releasing cam-lever pivoted to the base-plate and adapted to bear against 45 the outer edge of the long arm of the clamping-lever, substantially as shown and described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 50 the presence of two witnesses.

JOHN G. WARDELL.

Witnesses:

L. M. OAKES,
A. E. SHARPE.