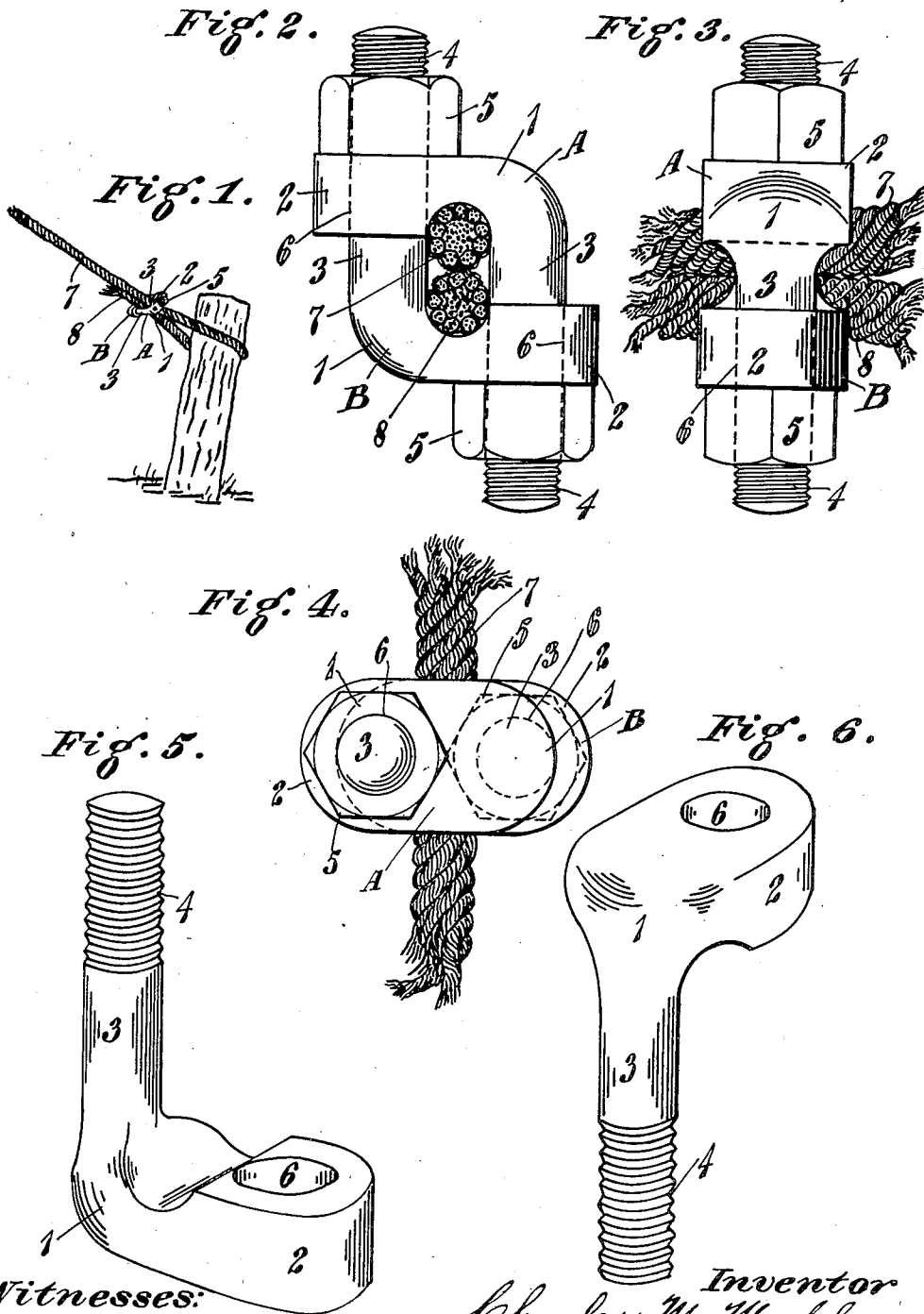


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CLIP.

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CLIP.

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To all whom it may concern:

Be it known that I, CHARLES M. MOCKBEE, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Clips, of which the following is a specification.

My invention relates to clips for clamping and holding firmly together ropes and the like, and its object is to provide a simple and effective device of this character which may be readily applied in use, and which may be economically produced.

My invention consists in a clip comprising the combination of two identically formed members, each comprising an integral plate and stud, the plate of each having an opening to admit the stud of the other, and each stud being provided with means for preventing the withdrawal of the stud from the opening in the other member.

In the drawing: Figure 1 is a perspective view of my improved clip in use. Fig. 2 is a front elevation of my improved clip. Fig. 3 is a plan view of the same. Fig. 4 is a side elevation of the same. Fig. 5 is a detail perspective view of one of the members. Fig. 6 is a detail perspective view of same in reverse position.

As illustrated, the device embodying my invention is composed of the two members A and B, each of which has a bend 1 so as to be of right angular formation, the part lying on one side of the bend forming a plate 2, and the part lying on the other side of the bend forming a stud 3 which is provided with screw threads 4 upon which are screwed nuts 5. The plate 2 of each member has an opening 6 through which the stud 3 of the other member is adapted to be inserted, after which said nuts 5 are screwed onto said threads 4 with the result that the members will be caused to move toward each other, each projecting its stud through the opening of the other. The part of each plate between the stud 3 and the opening 6 therein, near the bend, is concave and of such shape as to receive the convex surface of an article to be clamped by the clip, such as the parts 7 and 8 of the rope, as illustrated in the drawing. The two members are identical in formation. This region of the plate, where it is adapted to engage with the rope, is, preferably, uniform in width with the part of the plate in the vicinity of the opening 6, and, consequently, since the

stud 3 of the cooperating member is adapted to pass through the opening 6 in the plate, this part of the plate adapted to engage with the rope is wider than the stud. Thus constructed, it will be seen that each member has a stud 3 and an opening 6 extending in parallel directions, with the stud and the opening removed from each other in a direction at right angles to said parallel directions, while the widening of the part of the plate 2 adjacent to the bend 1 of the member, where said plate engages with the rope, is in a direction at right angles both to the direction of separation of the stud and opening, and at right angles to the direction of extension of the stud and opening. This part of the plate, being thus of ample width and of concave formation to conform to the convex surface of the rope or other article to be clamped, affords an ample bearing surface to prevent slipping of any of the parts, as well as injury to the rope or other article clamped. When the nuts 5 are drawn tightly against the outer sides of their respective plates 2, these bearing surfaces of the plates will be drawn tightly against the rope, and, being of wide formation, extend a considerable distance along the rope so that they also add to the stability of the clamp against twisting, or other displacement.

The two members, being identical in formation, are not only manufactured at less expense, but may be handled with much greater facility than where the parts which must cooperate are of different formation and must be assorted accordingly.

My improved clip comprising two members, each consisting in an integral plate and stud of uniform composition throughout, being preferably formed of a single piece of wrought iron by forging, and at the same time presenting the useful features of plates and studs formed separately, allows of a construction reduced to the least number of parts consistent with providing ample bearing surface at both sides of the article to be clamped. It will readily be seen that the application of the device in such cases as the clamping of the free end of a guy rope to the standing part, after passing it around a post, as illustrated in Fig. 1 of the drawing, is greatly facilitated, not only on account of the reduced number of parts and their identity of formation, but on account of the ample bearing surfaces which the plates of

the members have, allowing the members to be applied to the rope and conveniently held in position while applying and drawing up the nuts against the members. The avoidance of twisting of the clip is especially desirable during this tightening of the nuts in applying it, when the clip must be applied to the rope while the rope is under heavy tension, as in the case herein illustrated. While thus facilitating the application of the clip on the rope under tension, its use has an advantage in applying it to the rope while slack previous to putting the rope in position, since its long bearing surface on both parts of the rope prevents the twisting of the parts of the rope on each other with the result that a loop may be accurately formed, as in making a loop around a thimble, and the work can be more quickly done.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a clip, the combination of two identically formed members, each comprising an integral plate and stud, the plate of each having an opening to admit the stud of the other, and each stud being provided with means for preventing the withdrawal of the stud from the opening in the other member, substantially as and for the purposes herein set forth.

2. In a clip, the combination of two identically formed members, each presenting a stud and an opening in parallel directions,

the stud and the opening being removed from each other at right angles to said parallel directions, and part of each member between its stud and opening being wider than the stud in a direction at right angles to the direction of separation of the stud and opening and also at right angles to the direction of extension of the stud and opening, the stud of one member being adapted to extend through the opening of the other member in use and the widened parts of the members being adapted to bear on the articles clamped together, and the studs being provided with means for opposing their withdrawal from the openings, substantially as and for the purposes herein set forth.

3. In a clip, two coöperating members having bends so as to be of right angular formation, each having an opening at one end and a thread at the other, the threaded end of each member entering the opening of the other coöperating member and having a nut screwed upon it to adjust and hold the members in clamping position, the part of each member between the opening and the threaded part, near the bend, being wider than the threaded part, to afford a bearing surface, substantially as and for the purposes herein set forth.

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