

No. 801,455.

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G. N. HEALD,
ROPE FASTENER.
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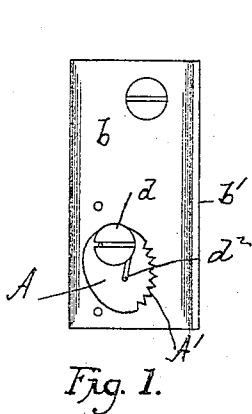


Fig. 1.

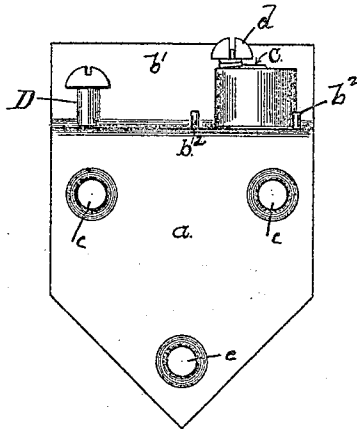


Fig. 2.

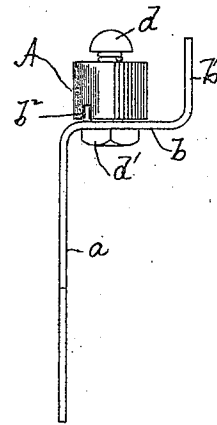


Fig. 3.

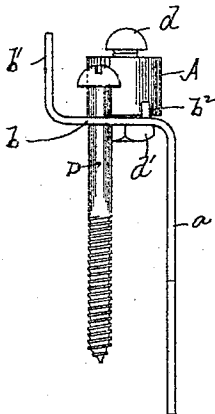


Fig. 4.

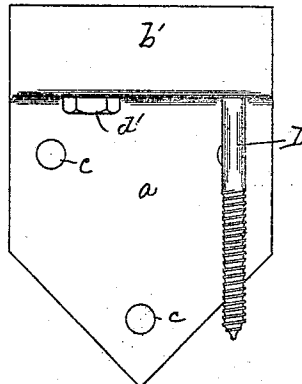


Fig. 5.

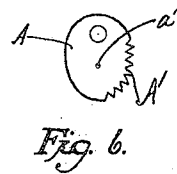


Fig. 6.

Witnesses:

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UNITED STATES PATENT OFFICE.

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ROPE-FASTENER.

No. 801,455.

Specification of Letters Patent.

Patented Oct. 10, 1905.

Application filed February 15, 1904. Serial No. 193,748.

To all whom it may concern:

Be it known that I, GEORGE N. HEALD, a citizen of the United States, residing in the city of Lewiston, county of Androscoggin, State of Maine, have invented certain new and useful Improvements in Rope-Fasteners, of which the following is a specification.

The invention to be hereinafter described relates to rope-fasteners wherein an oval-shaped corrugated dog is so mounted with respect to a flanged sustaining-plate that the rope to be clamped may be caught between the dog and a flange of said plate to securely hold the rope; and the objects of the invention are to provide a simple and efficient device of this character adapted for ready application to the various uses to which it may be put.

The invention consists of the parts and combinations hereinafter more fully described, and definitely pointed out in the claim.

In the drawings, Figure 1 is a plan view of a device embodying the present invention. Figs. 2 and 3 are front and edge elevations thereof, respectively, the screw being omitted from Fig. 3. Fig. 4 is an edge elevation showing the screw in place. Fig. 5 is a rear elevation of parts shown in Fig. 4, and Fig. 6 is a detached detail of the dog.

In the drawings, *a* represents a plate preferably formed of sheet metal and bent to form the supporting-shoulder *b*, from which projects the flange *b'*, the said sheet-metal plate being adapted by the screw-holes *c c c* to be secured in convenient position, as required.

Projecting upward from the shoulder *b* of the sheet-metal plate is a stud or bolt having the slotted head *d*, said bolt being preferably held upon the shoulder by the nut *d'* beneath said shoulder, as will be seen from Figs. 3 and 4.

Mounted on the stud or bolt is the elliptical or oval shaped dog *A*, having the serrated face *A'* and adapted to clamp a rope or the like between said face *A'* and the flange *b*. Surrounding the upper end of the bolt and disposed between the slotted head and the upper surface of the dog *A* is the spring *C*, one end of which is secured to the dog, as at *d²*, and the other end of which enters the slotted head *d*, the tendency of the spring being to throw the serrated face *A'* of the dog

away from the flange *b'*, and thus automatically release a rope after the strain thereon has been relaxed, as will be apparent.

It will be noted that the dog *A* is mounted near one end of the shoulder *b* of the supporting-plate, and near the other extremity of said shoulder is a pin or screw-stud *D*, between the head of which and the flange *b'* the clamped rope will rest and will be guided to thereby obviate side strains on the dog *A*.

In Fig. 6 the dog *A* is shown as provided with a small hole *a'*, into which the end of spring *C* is forced to secure said end to the dog.

From the construction shown and described it will be noted that the sheet-metal plate *a* may be bent to form not only the supporting-shoulder *b*, but also the flange *b'*, and that the device as an entirety can be readily secured to a wall or other support by means of the holes *c c c*, which may receive screws or other fastenings.

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

A sheet-metal fastening device, consisting of an attaching member, a shoulder portion formed integrally therewith and extending in a plane perpendicular to that of the said attaching member, a flange or guide member, said flange being formed integrally with said shoulder portion and extending in a plane perpendicular to said shoulder portion and a plane parallel to that of said attaching member, clamping means supported by said shoulder portion, said clamping means consisting of a dog rotatably mounted upon a bolt passing through said shoulder portion, said dog being actuated by a spring, one end of which is attached to said dog, the other end being wound around the said stud and secured in a slot in the head of the same, and guiding-pin mounted upon the shoulder portion near the opposite edge of the said shoulder to that on which the rotatable dog is mounted.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE N. HEALD.

Witnesses:

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