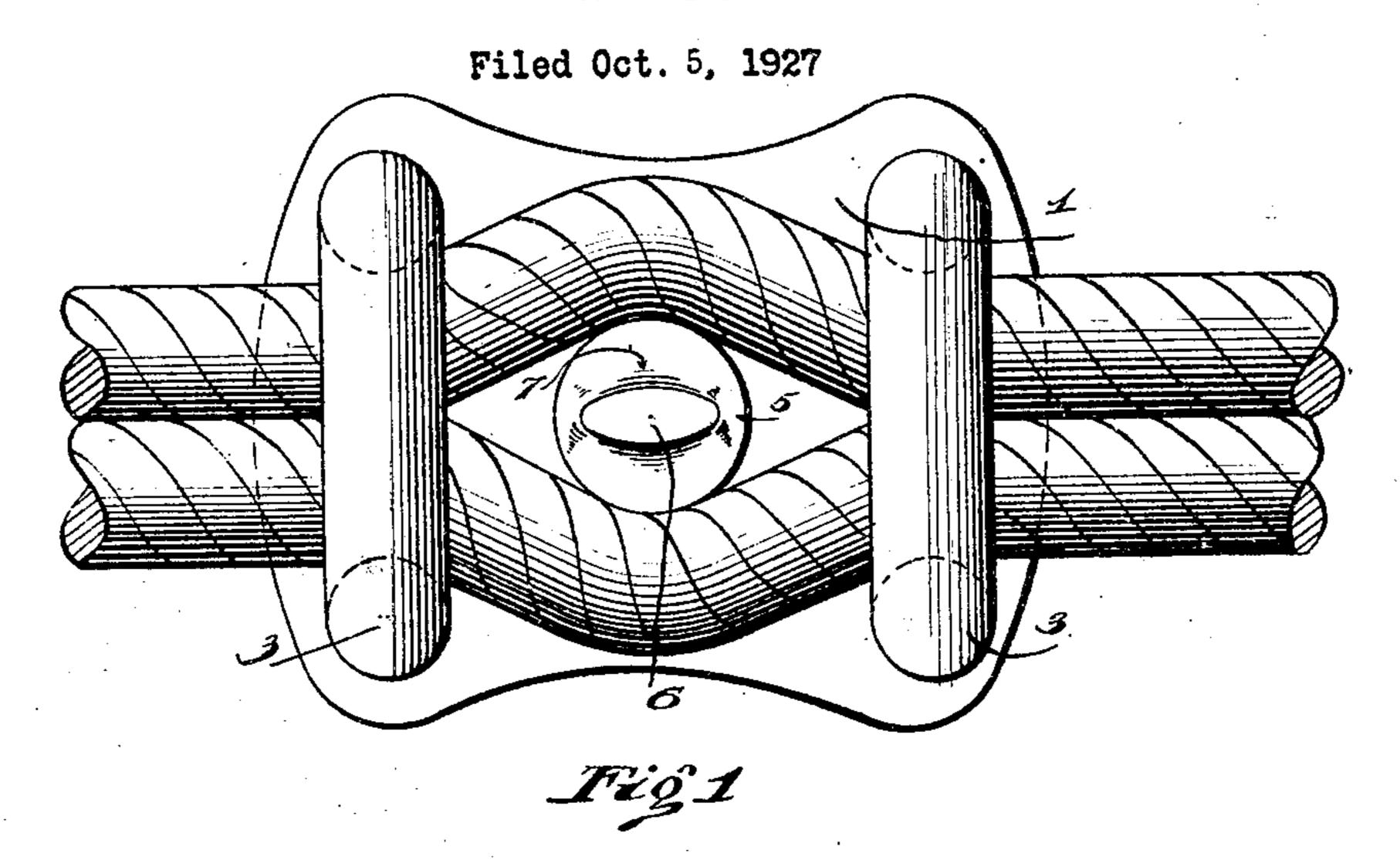
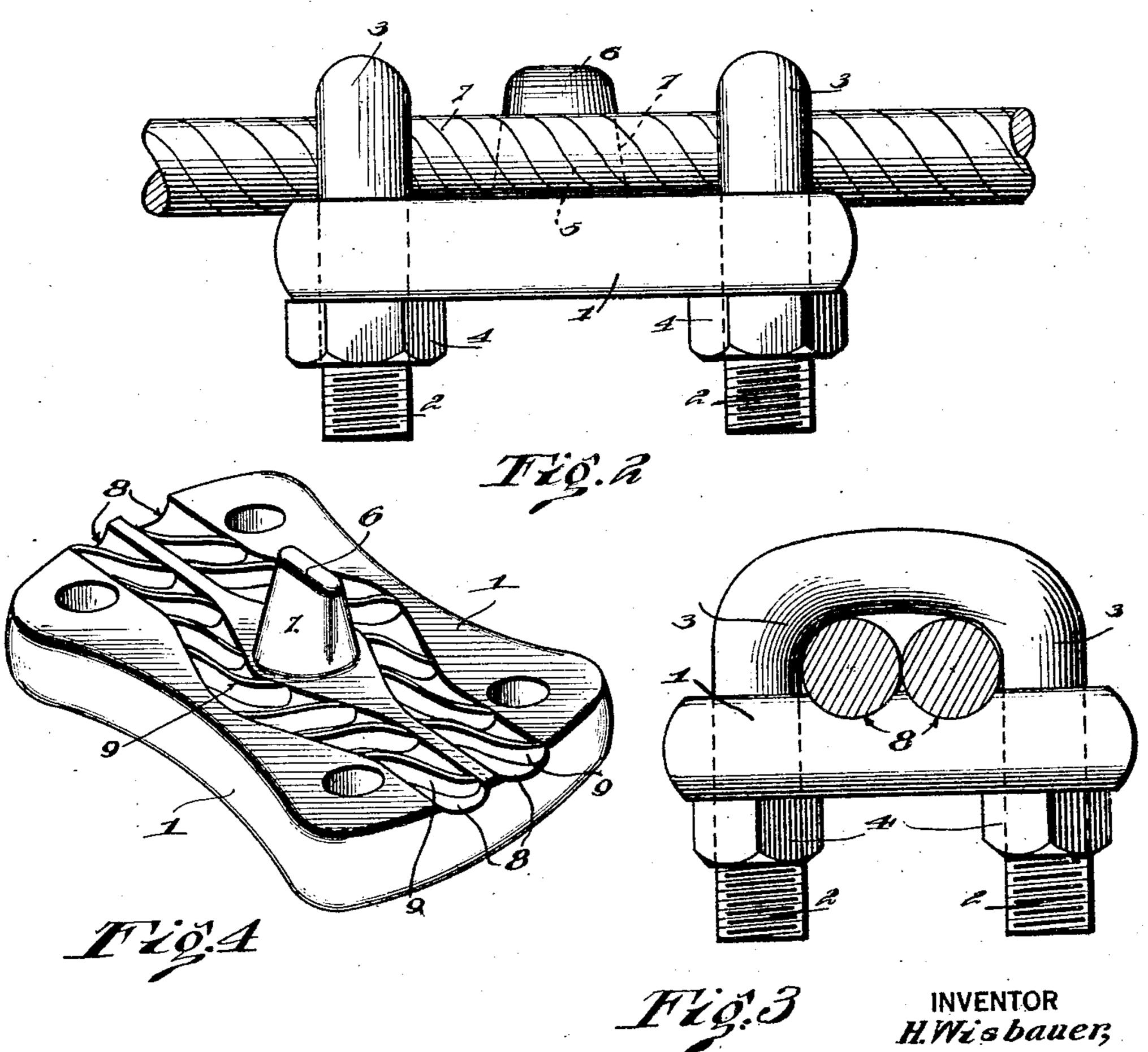
## H. WISBAUER

ROPE CLIP





## UNITED STATES PATENT OFFICE.

HOWARD WISBAUER, OF BUFFALO, NEW YORK.

ROPE CLIP.

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This invention relates to clips, so-called, the stud and cramped in the eye bolts 3 which, strands of rope, cable, etc., and has for its embrace and clamp the parallel strands passobject the provision of a holding clip of sim- ing therethrough by means of the clamping 5 ple construction providing among other fea- nuts 4 as usual. It is to be understood that 68

rope held in the clip.

vision of a holding clip providing opposed or cable, so that the spreading effect of the 10 spaced clamping means for parallel strands stud on the strands of rope between the U bolt 65 of rope, etc., with intermediately positioned means for spreading oppositely outward, the strands to cramp them relatively to said clamping means. Such a construction pro-15 vides a clip for joining and holding the strands of wire, rope, cable, etc. for rope end loops, and splices, for example.

A preferred embodiment of the invention is described in the following detailed specifi-20 cation, when read with reference to the accompanying drawings forming part thereof

and in which:

Figure 1 is a top plan view of a holding clip constructed in accordance with the pres-25 ent invention with a double strand of cable clamped and held wedged thereon.

Figure 2 is a side elevation of said clip as

shown in Figure 1.

Figure 3 is an end elevation of the clip, and

with cables and clamping bolts removed.

Referring to these drawings, 1 indicates an elongated plate having dual perforations ad- or bend the cable or rope strands with these jacent to its opposite ends and in alinement ribs or corrugations. As a result the cable, 90 through which the threaded feet 2 of U bolt not being so cramped, is caused to turn under clamps 3 are inserted, these clamps being holding strain and follow the corrugations, drawn down upon the plate by means of the thereby pulling through the clip. usual nuts 4 at the under side of the plate 1. By cramping the cable through the stud 40 The top face of this plate is grooved longi- 6 or its equivalent, I make the spiral ribs or 95 tudinally to form twin tortuous grooves or corrugations effective to resist loosening pull seats 8 having spiral ribs 9. At a point in- instead of tending to aid it. Additionally, termediate of the clamps 3 in the center line the pull or tension on the cable is transmitthereof, a stud 5 extends upwardly from the ted to the base through the ribbed grooves. 45 top face of the plate 1, the sides of this stud Having described the invention, what I 10% an elongated or oval tip 6 from which the is: sides of the stud flare downwardly and out- 1. In a device of the character described, gated tip 6 is instrumental in permitting the transversely extending inverted U-bolt 10. the inclines 7 of the stud with the result that spreading stud. the normally parallel strands are spread 2. In a device of the character described,

which are used for joining and holding obviously, are drawn downwardly over and tures means for bending or cramping the the described cable or rope holding clip is to be made with its wedging stud and U bolt The invention has a further object, the pro- clamps sized for different diameters of rope clamps is effective to cramp the strands relatively to the U bolt and will substantially increase the holding power of the clip. The form of the spreading or cramping member may be varied, the illustrated form being in- 70 tended as illustrative and not as restrictive. The operation of threading strands of wire or cable through the eye bolts and the spreading of the rope to force it down over the inclined sides of the stud will be obvious and 78 needs no detailed description. The cramping action of the interposed wedging member is effective to bind or lock the strands against loosening through heavy strain and the simple construction providing these results enables the clip to be manufactured on a very economical basis.

The grip of the clip on the rope or cable is made doubly effective by means of the tortuous grooves 8 and their spiral ribs 9.85 Figure 4 is a perspective view of the clip Holding clips, as previously used, have used spiral corrugations without providing for a cramping bend in the cable serving to wedge

tapering upwardly and inwardly to present claim and desire to secure by Letters Patent

wardly as wedging surfaces 7. The elon- a base carrying adjacent to its opposite ends strands of cable or rope to be guided there- clamps and having upstanding centrally by, and forced down into the grooves 8 over therefrom between said U clamps, a strand

apart by the taper or wedging inclines 7 of a plate having rope embracing and clamping 1111

cent to its opposite ends and having inter-strands relatively to the U clamps. strands.

3. In a device of the character described, a base plate, a pair of eyes mounted on said 10 plate in alined spaced relation longitudinally groove. thereof to clamp abutting parallel strands 15 spread and hold them apart in cramped relation to the eyes.

4. In a device of the character described, a plate mounting in spaced alined relation, a pair of inverted U bolt clamps to receive and 20 clamp on the plate abutting parallel strands, and a wedging stud positioned on the plate between the U bolts and insertible between said parallel strands to bend and hold them outwardly in opposite directions and thereby 25 to cramp the strands in the U bolt clamps.

5. In a device of the character described, a plate mounting in spaced alined relation, a pair of inverted U bolt clamps to receive and 30 said plate having centrally thereof upstand-sitely outward and down into their grooves. ing between the U bolt clamps a stud having Signed at Columbus in the county of the strands and downwardly and outwardly ta- October A. D. 1927. pering sides to wedge the engaged strands

bolts extending transversely thereof adja- oppositely outward thereby cramping the 35

mediate of said ends and substantially cen- 6. In a device of the character described, a trally thereof, wedging means upstanding base traversed by cable clamping bolts adja-5 from the plate and positioned thereon to en-cent to its opposite ends and having a torter between and spread apart adjacent tuous groove therein to receive the cable, and 40 a cable cramping member upstanding from said base between said end clamping bolts and effective to bend and seat the cable in its

7. In a device of the character described, a 45 to the plate, and a spreading means on the base traversed by cable clamping bolts adjaplate upstanding between said eyes and in-cent to its opposite ends and having a pair sertible between the adjacent strands to of tortuous grooves formed in its face, and wedging means positioned on the plate between the end clamping bolts and between 50 said grooves effective to engage between parallel strands to bend and hold them outwardly in opposite directions seated in their grooves.

8. In a device of the character described, a 55 base traversed by cable clamping bolts adjacent to its opposite ends and having a pair of tortuous grooves formed in its face, provided with spiral cable gripping ribs, and wedging means projecting upwardly from the base between said end clamping bolts and between said grooves, and insertible between parallel clamp on the plate abutting parallel strands, strands of cable to cause them to bend oppo-

an elongated tip insertible between adjacent Franklin and State of Ohio this 3rd day of

HOWARD WISBAUER.