H. C. SCHAFFERNOCKER.

CABLE CLAMP.

APPLICATION FILED JAN. 10, 1919.

1,369,842. **Patented Mar. 1, 1921.**

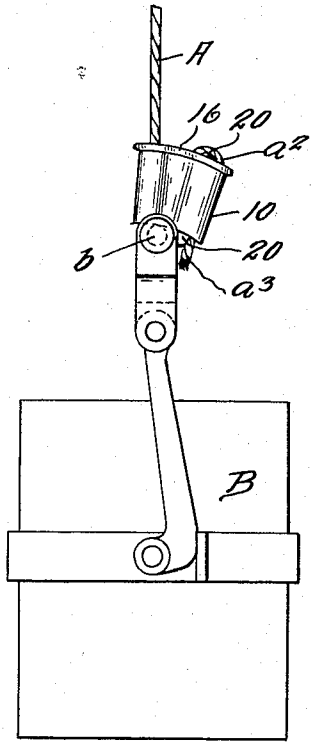

FIG. 1

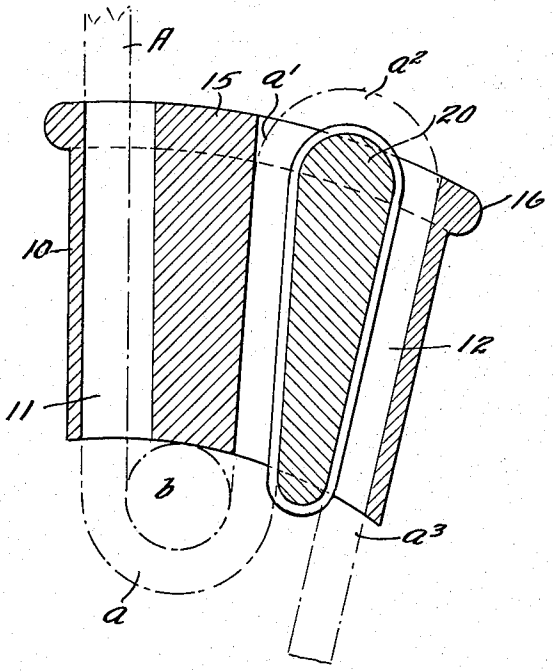

FIG. 2

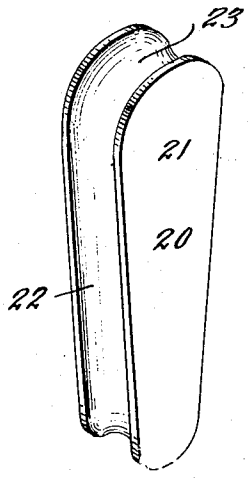

FIG. 4

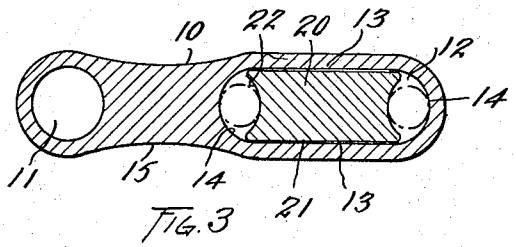

FIG. 3

INVENTOR

Harry C. Schaffernocker,

By Bakewell & Macklin,

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HARRY C. SCHAFFERNOCKER, OF LEETONIA, OHIO.

CABLE-CLAMP.

1,369,842. Specification of Letters Patent. Patented Mar. 1, 1921.

Application filed January 10, 1919. Serial No. 270,462.

To all whom it may concern:

Be it known that I, HARRY C. SCHAFFERNOCKER, a citizen of the United States, residing at Leetonia, in the county of Columbiana and State of Ohio, have invented a certain new and useful Improvement in Cable-Clamps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

The object of this invention is to provide a very simple and efficient device for securing a cable to a suitable load-container adapted to be lifted. More particularly the device provides means whereby the cable may hang in a bight about the pin or bail of a bucket, my clamp serving to guide the cable reach above the bight and effectively anchor the free end of the cable.

My device comprises a block formed with a guide for the main reach of the cable and an automatically acting wedge clamp for locking to the block the end portion of the cable. The construction allows the cable to be readily passed beneath the supporting member of the bucket and then locked in the block, the block bearing against the upper side of the bucket pin and the bight of the cable drawing tightly about the lower side. The weight of the bucket insures the wedge lock being drawn tightly to its seat so that slipping is impossible. However when the weight is relieved the wedge may be readily driven out from the bottom to free the cable whenever desired. The invention is hereinafter more fully explained and the essential characteristics are summarized in the claims.

In the drawing, Figure 1 is a side elevation of a bucket, a supporting cable and my clamping device; Fig. 2 is a sectional elevation of the clamping device on a larger scale; Fig. 3 is a cross section thereof; Fig. 4 is a perspective view of the locking wedge.

As shown in the drawings, the clamp consists of two members, namely, the block 10 and the wedge 20. Each of these parts may conveniently be steel casting, or other means of manufacture may be employed, if desired.

The block 10 has a cylindrical opening 11 through it near one edge, while extending from about the middle of the block to a point near the other edge is an opening 12 which converges downwardly, this opening having flat sides 13 and rounded edges 14. Between the two openings the block is preferably solid, as shown at 15. Around the edge of the block is preferably made a stiffening bead 16.

The wedge is a member flat on its parallel sides 21 and concaved on its tapered edges, as shown at 22. The upper end of the block is substantially semi-circular and concaved, as shown at 23.

The relative dimensions of the parts mentioned are such that when the wedge is positioned, with about an equal extent of it projecting below and above, there are provided on opposite sides of the wedge approximately cylindrical cavities substantially equal to the cross section of the cable. The bore of the opening 11 is sufficiently larger than the cross section of the cable to enable the cable to loosely play through this bore.

In use the cable, designated A, in Figs. 1 and 2, passes downwardly through the bore 11 and thence loops at a, around the pin or or other engaging portion b of the bucket B and thence across the top of the wedge, as shown at a^2 and downwardly between the wedge and the other edge of the block as at a^3. With the device so mounted, when the pull on the cable A starts to raise the bucket the pin becomes tightly clamped between the bight a and the lower edge of the block and the downward pull on the cable portions a^1, a^2 pulls the wedge downwardly tightly clamping the cable end in place.

Experience with this cable clamp has shown that it is very effective in holding the cable to a bucket, enabling the carrying of a heavy load with perfect safety. At the same time, whenever it is desired to release the cable, it is only necessary to otherwise support the bucket and loosen the wedge by blows of a hammer on the small end of the wedge. This at once frees the cable.

Having thus described my invention what I claim is:—

1. In a device of the character described, the combination of a wedge-shaped block having substantially flat sides, and having a circular passageway through it adjacent to one edge, and a tapered passageway adjacent to the other edge, the top of said tapered passageway being wider than the bottom, and a grooved wedge adapted to be seated in the tapered passageway and clamp a cable, the end portion of which loops around the wedge and the intermediate portion of which depends in a bight between the wedge and the said tubular passageway, whereby the cable is caused to pass through

the block three successive times, in nearly parallel lines in substantially the same plane.

2. In a device of the character described, the combination of a block having a substantially cylindrical tubular passageway adjacent to one edge, a tapered passageway adjacent to the other edge and approximately parallel to said tubular passageway and an intermediate solid portion, said tapered passageway having substantially flat sides and curved end walls, and a wedge having substantially flat sides and concave edges and adapted to occupy the tapered passageway, the upper end of the wedge being rounded and concaved, whereby the lifting portion of a supporting cable passes downwardly through said cylindrical passageway and the end thereof passes upwardly and then downwardly through said tapered passageway forming a bight over said wedge.

In testimony whereof, I hereunto affix my signature.

HARRY C. SCHAFFERNOCKER.