

O. E. STREHLOW.

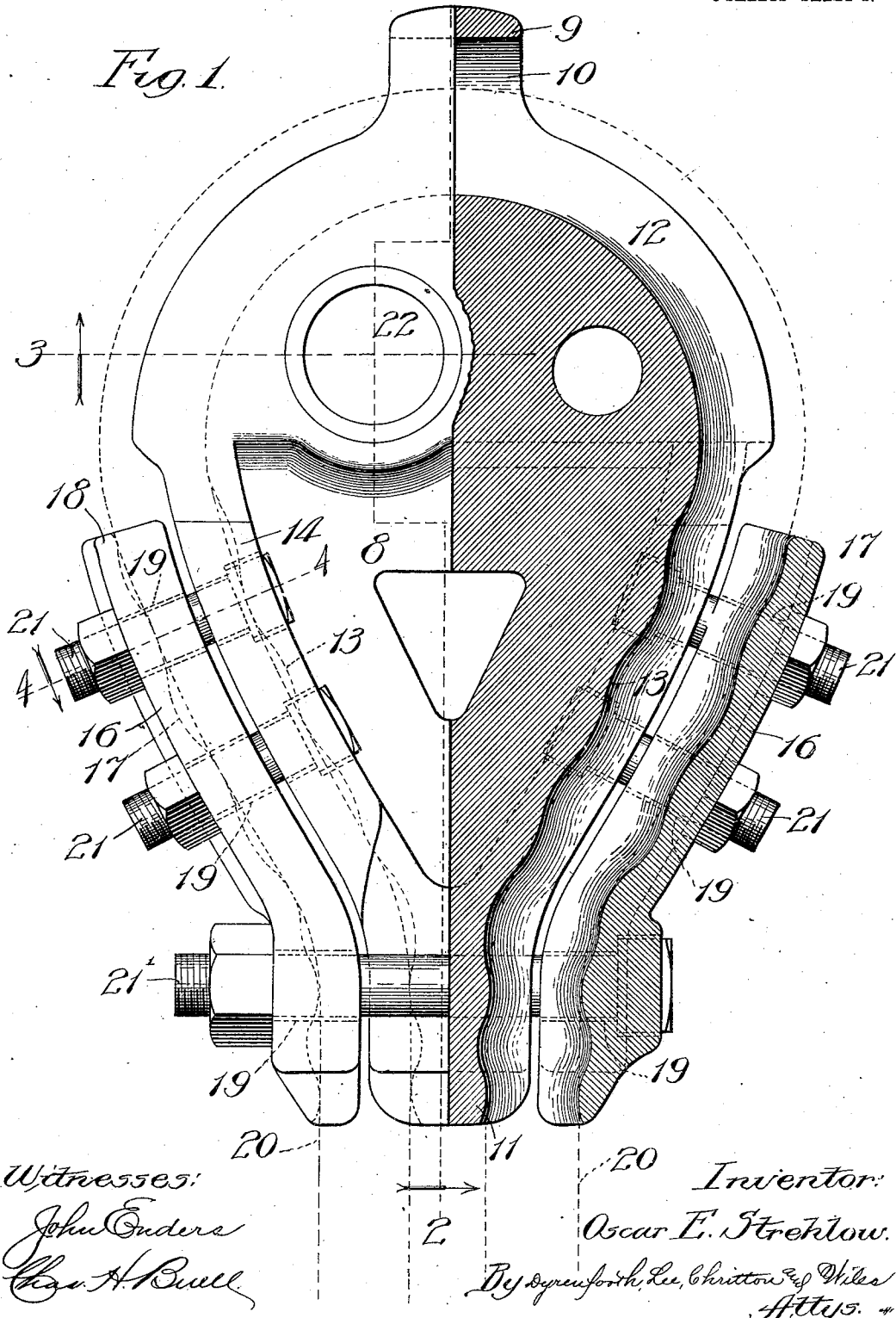
CABLE THIMBLE.

APPLICATION FILED MAR. 18, 1909.

938,086.

Patented Oct. 26, 1909.

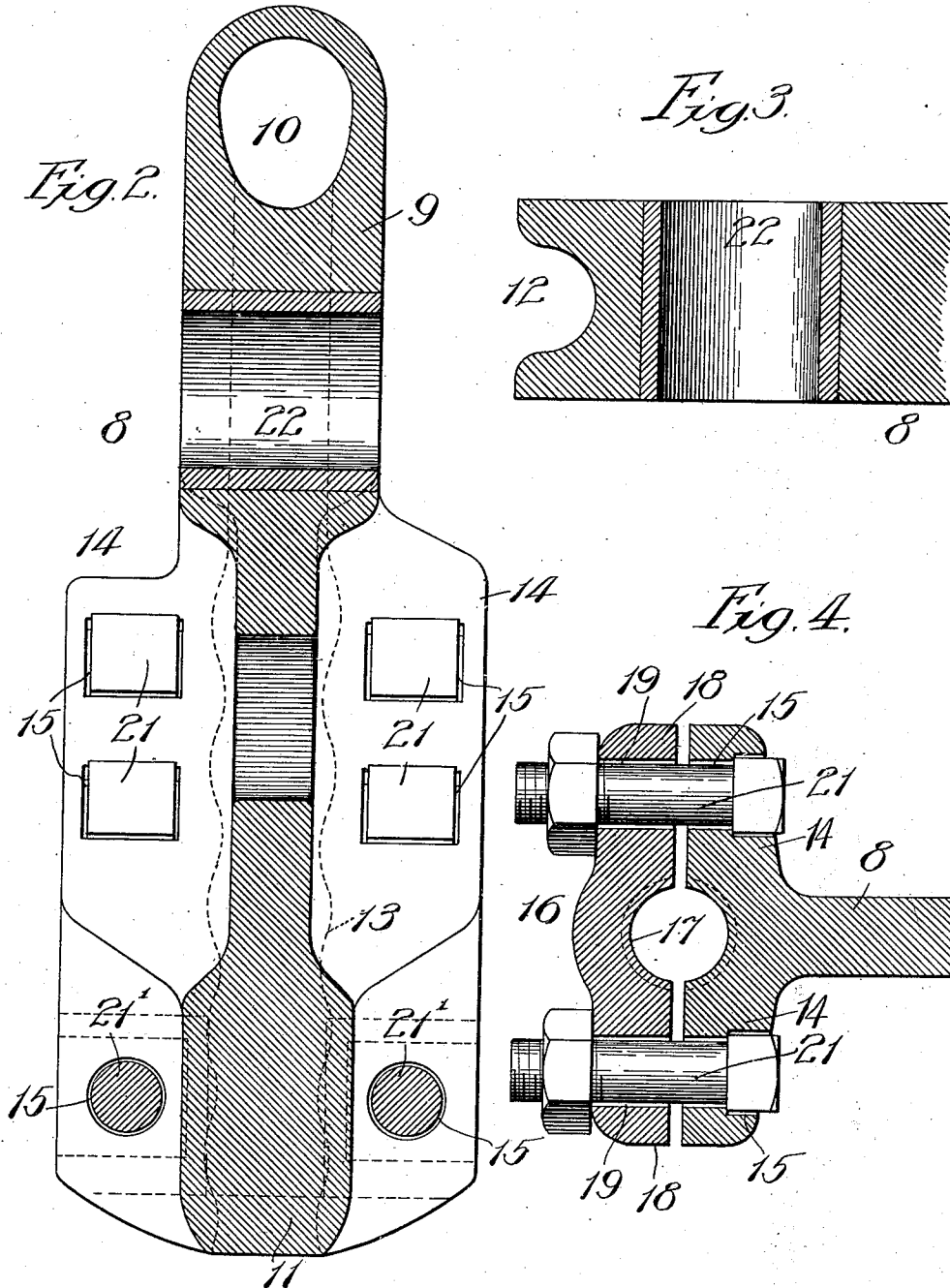
3 SHEETS—SHEET 1.



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Witnesses:
John Enders
Chas. H. Bull

Inventor:
Oscar E. Strehlow.
By Ogdenforth, Lee, Christon & Miles
Attys.

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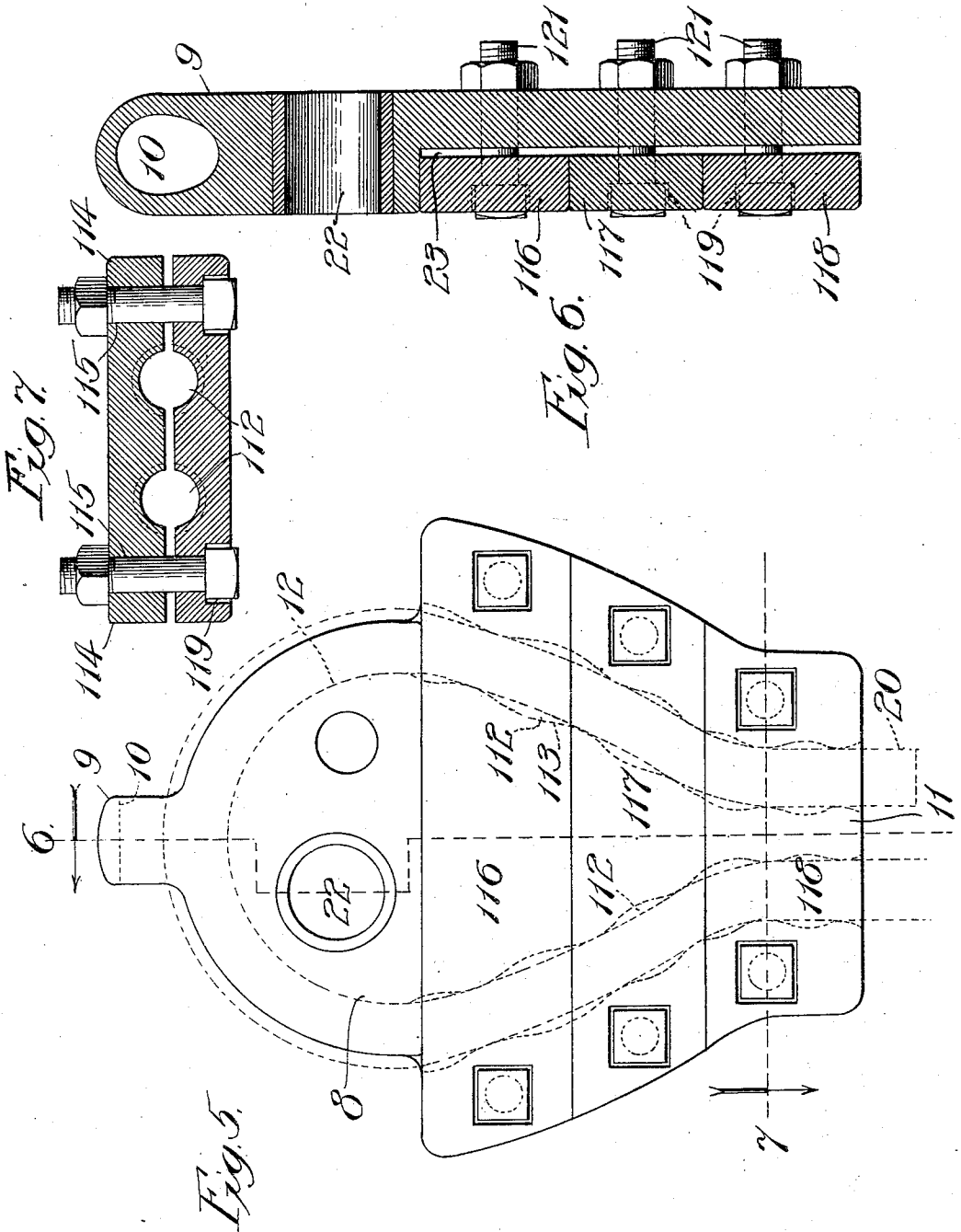
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UNITED STATES PATENT OFFICE.

OSCAR E. STREHLOW, OF CHICAGO, ILLINOIS.

CABLE-THIMBLE.

938,086.

Specification of Letters Patent.

Patented Oct. 26, 1909.

Application filed March 18, 1909. Serial No. 484,307.

To all whom it may concern:

Be it known that I, OSCAR E. STREHLOW, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Cable-Thimbles, of which the following is a specification.

My invention relates to an improvement in the type of thimble employed for wrapping about it and securing the end-section of a heavy rope or wire cable used, for example, for carrying a clevis, or the like, on which to support an object to be hoisted or otherwise handled by machinery.

The primary object of my invention is to provide a novel construction of combined thimble and clamp for the purpose stated which shall serve to effectively clamp such cable-end and permit the operations of applying it thereto and disconnecting it therefrom to be performed expeditiously and with comparative facility.

In the accompanying drawings, Figure 1 is a plan view, partly in section, of my device illustrating one form of embodiment of my invention with a cable end-portion shown clamped thereto by dotted representation; Fig. 2 is a section on the irregular line 2, Fig. 1, and Figs. 3 and 4 are broken sections respectively on the lines 3 and 4 of the same figure; Fig. 5 is a plan view showing a modified embodiment of my invention, and Figs. 6 and 7 are sections respectively on lines 6 and 7, Fig. 5.

The essential feature of my invention is means on the thimble serving to secure a cable bent about the groove in its edge-portion from slipping out of such groove under the strains to which the cable is subjected in use.

The thimble 8 shown for illustrating my improvement is one in common use as to the general heart-shaped form of its body-portion, centrally from the larger end of which projects a stem 9 containing an opening 10, the opposite end terminating in a central stem-like extension 11. A groove 12 is provided about the edge of the entire flat-sided thimble-body and along the sides of the extension 11, and it intersects the opening 10. The base of this groove presents an undulatory gripping-surface, shown at 13, extending along the edges of the thimble to its bulging or head portion from the extremity of the stem-like extension; and flanges 14 project at right-angles to the

thimble along these parts of its sides and contain bolt-holes 15. Similar clamping-caps 16, 16, which contain longitudinal grooves 17 having undulatory bases like those of the sections of the groove 12, conform to the latter and their flanges, the flanges 18 of these clamps containing bolt-holes 19 to register with those on the flanges 14.

To fasten the end-portion of a cable 20 on my improved device constructed as thus described, such end-portion is passed through the opening 10 and bent into the groove 12 about the thimble, when one cap 16 is applied in place and fastened by bolts 21 passed through the holes in its flanges and through the holes registering therewith in its flanges 14, whereupon the other cap is similarly secured in place and then relatively longer bolts 21¹ are passed, at opposite sides of the extension 11, entirely through both flanges 14 and 15 at the registering bolt-holes therein. The cable-end is thus firmly gripped between the undulatory surfaces of the grooves in the thimble and clamping-caps, and effectually secured against separation from the thimble. The hole 22 shown in the thimble receives the clevis or other medium (not shown) for connecting the cable with an object to be handled. It will be observed that the construction brings this hole in the line of draft on the cable, with the advantage of reducing to the minimum the tendency of the draft-strains to slip the cable about the thimble and to outward strain against the adjacent nuts.

The construction illustrated in Figs. 5 to 7, inclusive, differs from that described with relation to the preceding figures in causing the clamps to extend across a face of the thimble 8, the portion of which below the hole 22 is formed as an off-set section 23 with laterally extending flanges 114 containing bolt-holes 115; and three caps or clamp-sections 116, 117 and 118 are provided to extend in abutting relation across the section 23 to register the bolt-holes 119 in their flange-forming end-portions with the bolt-holes 115 to receive bolts 121. In this construction the ends of the cable-groove about the larger end of the thimble are continued as sections 112 thereof in the face of the off-set 23 along its edge-portions, the undulatory gripping-surfaces 113 being at the inner sides of the groove-sections; and the corre-

sponding cable-grooves in each of the three cap-sections, and which register with the groove-ends 112, are similarly undulated along their outer sides for exerting the gripping effect on the cable.

To fasten the last-described construction of the thimble to the end-portion of a cable 20, the latter is passed through the opening 10 in the stem 9 and about the groove 12 into the extensions 112 thereof; whereupon the caps 116, 117 and 118 are applied and bolted in place to clamp the cable end-portion into gripped condition about the thimble. In this construction, also, the hole 22 aligns with the direction of the draft-strains exerted upon the cable.

It is an important feature of my construction that the bolt-holes shall register, as shown, with the elevated sections of the undulatory surfaces of the grooves on the thimble and clamp flanges, since thereby a more powerful gripping-effect may be exerted against the cable by fastening the clamps through the medium of the bolts to adjust their clamping action. While the gripping groove-surfaces are shown and described as undulatory, I intend that term to include any suitable form of irregularity in those surfaces.

What I claim as new and desire to secure by Letters Patent is—

1. In combination, a thimble of the character described provided with a cable-groove having curved alternating expanded and contracted gripping-surfaces, and caps provided with cable-grooves having curved alternating expanded and contracted gripping surfaces, the expanded surfaces of said caps being opposite the expanded surfaces of said thimble; said caps removably secured on the thimble to register their grooves with the thimble-groove for their cooperation in clamping a cable in said grooves.

2. In combination, a thimble of the character described provided with a cable-groove having laterally-extending flanges and irregular gripping-surfaces, said flanges con-

taining bolt-holes registering with protruding portions of said surfaces, caps provided with cable-grooves having irregular gripping-surfaces and with laterally-extending flanges containing bolt-holes registering with protruding portions of said last-named surfaces, said caps being bolted through their flange-holes to the thimble-flanges through their said holes to cooperate with the thimble-groove in clamping a cable therein.

3. A combined cable-thimble and clamp, comprising a thimble provided with a cable-groove, a stem on one end containing an opening, and a stem-like projection on its opposite end, a cable-groove extending about the thimble, flanges extending from the opposite thimble-edges, and caps containing grooves and provided with flanges through which they are bolted to said thimble-flanges to cooperate with the thimble-groove in clamping a cable therein.

4. A combined cable-thimble and clamp, comprising a thimble provided with a cable-groove having irregular gripping-surfaces, a stem on one end containing an opening, a stem-like projection on its opposite end, and a transverse hole for attaching to the thimble a clevis, or the like, flanges extending from opposite edges of the thimble at right-angles thereto and containing bolt-holes registering with protruding portions of said surfaces, and caps having cable-grooves provided with irregular gripping-surfaces, with flanges extending from the caps and containing bolt-holes registering with protruding portions of said last-named surfaces, said cap-flanges fitting against said thimble-flanges and being bolted thereto through said bolt-holes to cause the caps to cooperate with the thimble-groove in clamping a cable therein.

OSCAR E. STREHLOW.

In presence of—

R. A. SCHAEFER,
J. G. ANDERSON.