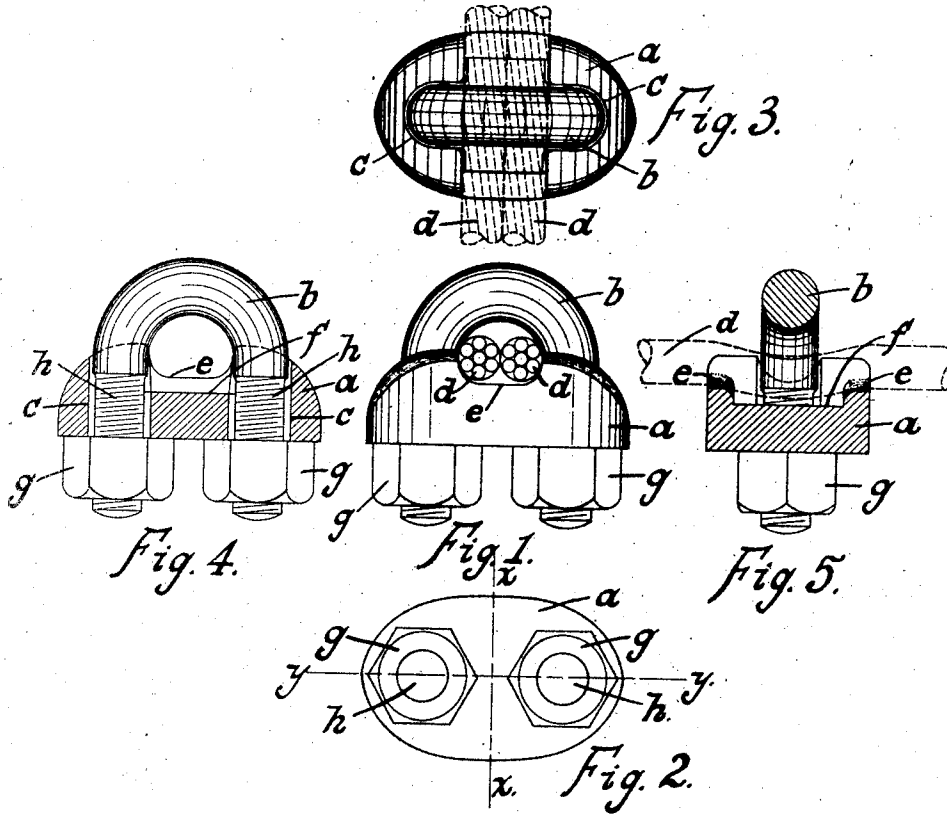


No. 879,087.

PATENTED FEB. 11, 1908.

F. B. COOK.
WIRE ROPE CLAMP.

APPLICATION FILED JAN. 30, 1905.



WITNESSES:

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FRANK B. COOK, OF CHICAGO, ILLINOIS.

WIRE-ROPE CLAMP.

No. 879,087.

Specification of Letters Patent.

Patented Feb. 11, 1908.

Application filed January 30, 1905. Serial No. 243,342.

To all whom it may concern:

Be it known that I, FRANK B. COOK, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Wire-Rope Clamps, of which the following is a specification, reference being had to the accompanying drawings, illustrating same.

My invention relates to clamps used for clamping stranded ropes, cables, or the like, therein, my principal object being to provide such a clamp which has a great holding power on the ropes, cables, or the like, and which is simple in construction.

In the accompanying drawings, Figure 1 is a side elevation of the clamp of my invention, with two stranded conductors therein; Fig. 2 is a bottom view of the clamp; Fig. 3 is a top view of the clamp, with the stranded conductors shown in dotted lines; Fig. 4 is a cross-sectional view of the clamp, taken on line *yy* of Fig. 2, with portions shown in elevation; and Fig. 5 is a cross-sectional view of the clamp, taken on line *xx* of Fig. 2.

Like characters refer to like parts in the several figures.

The body portion *a* of the clamp is preferably oval in plan and is provided with holes *cc* therethrough, through which the threaded portions *hh* of the U-bolt or yoke *b* freely extend. The portion *a* is also provided with ribs or longitudinal side projections *ee* on each side thereof, which are cut away to form a transverse groove, as shown in Fig. 1, in which the stranded cables or ropes *dd* are clamped. This transverse groove is not quite as wide as the sum of the diameters of the two ropes, so that when the latter are pressed into the groove, they are also clamped together. The center of the top portion of *a* is cut away as at *f*, so that when the nuts *gg* are tightened up, the ropes *dd* will be bent over the portions *ee* and drawn down into the hollow portion *f*, by the U-shaped bolt *b*, as shown in dotted lines in Fig. 5. This clamps the ropes in place so as to give a great holding power against slipping. The corners of *ee* are preferably rounded off to prevent them from cutting into the ropes.

When the nuts *gg* are tightened up, the ropes or cables *dd* are clamped together, are squeezed into the transverse groove or channel in ribs *ee*, are each clamped by and be-

tween the ribs *ee* and the bolt or yoke *b*, and are each bent over the edges of ribs *ee* and drawn down into the indenture *f*. When the nuts *gg* are screwed up tight, the stranded cables *dd* are deformed so as to nearly completely fill up the space between the yoke *b* and the body portion *a* of the clamp.

I preferably make the clamp of cast malleable iron and galvanize same with an electro-galvanizing which protects it from the action of the weather, and also presents a rough surface which takes hold of the ropes or cables and helps prevent them from slipping.

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

A clamp of the character described comprising a base portion having a recess thereacross for receiving a pair of strands side by side therein in a plane substantially parallel with the body of the base portion, the said recess being deeper at the inner portion of the base portion than at the edges of the latter, the side walls of the recess at the said edge portions of the base portion converging toward the bottom of the recess whereby when the strands are forced side by side into the recess they are squeezed together by the said converging side walls, a U-bolt the legs of which are extended through the base portion on opposite sides of the recess so that the U-bolt straddles the recess, the curved portion of the U-bolt being adapted to help squeeze the strands together when same are forced into the said recess, and means for drawing the U-bolt down across the strands and against each strand, between the said edges of the base portion to draw each strand down into the said recess at the inner portion of the base portion and bend each over the said edge portions of the base portion, whereby the strands are squeezed together by the said converging walls of the said edge portions of the base portion, to tightly clamp the said strands in place.

As inventor of the foregoing I hereunto subscribe my name in the presence of two subscribing witnesses, this 27th day of January, 1905.

FRANK B. COOK.

Witnesses:

FREDERICK R. PARKER,
JNO. F. TOMPKINS.