

No. 862,922.

PATENTED AUG. 13, 1907.

D. S. KRANCH.
ROPE CLAMP.

APPLICATION FILED NOV. 28, 1904.

Fig. 1.

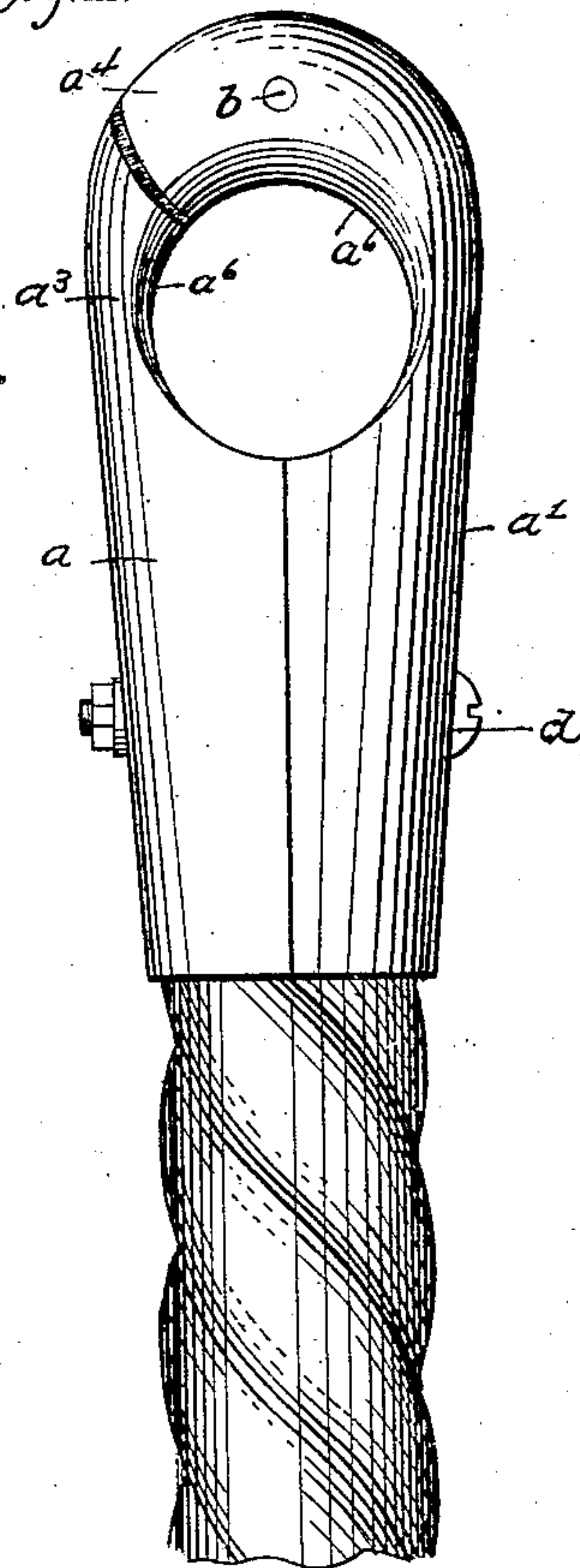
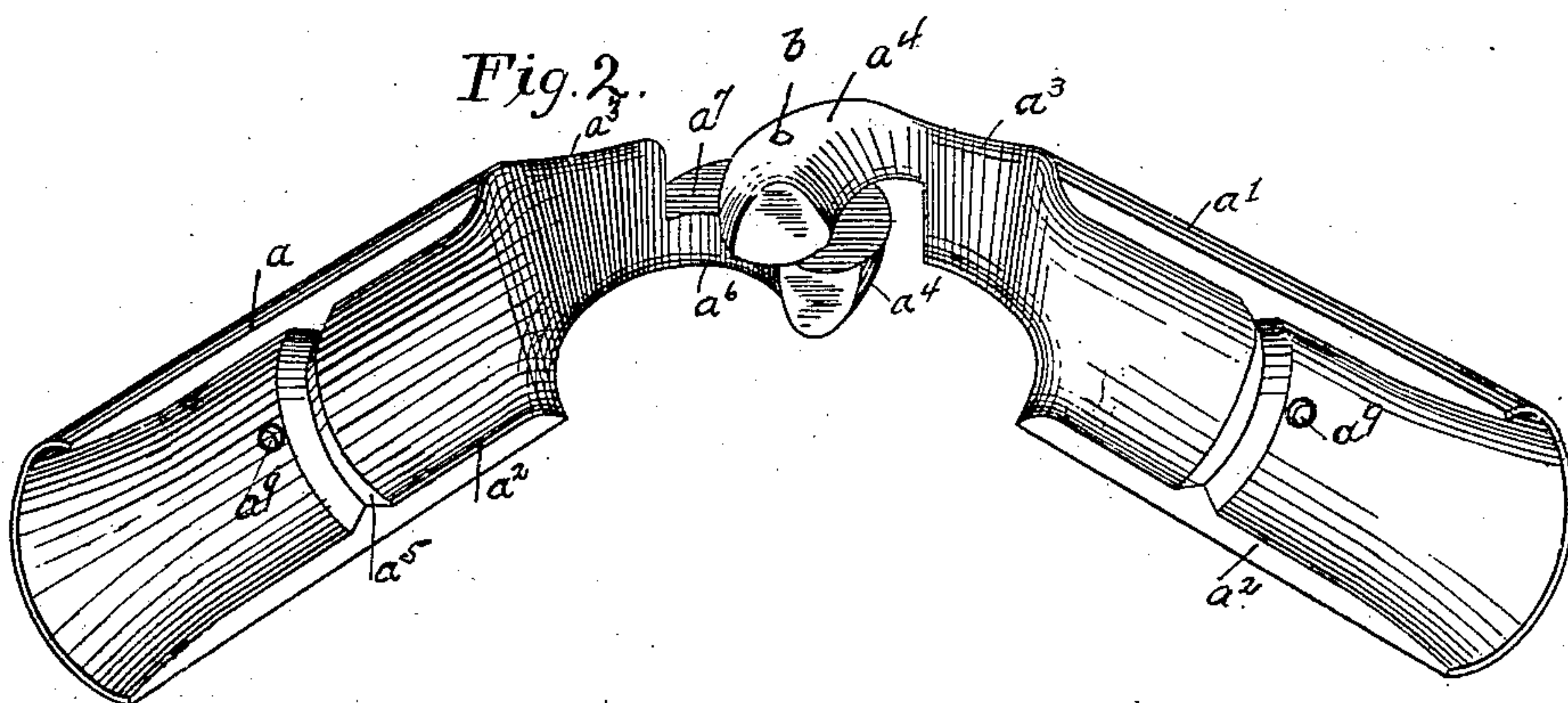


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

DANIEL S. KRANCH, OF BARNESVILLE, PENNSYLVANIA.

ROPE-CLAMP.

No. 862,922.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed November 28, 1904. Serial No. 234,462.

To all whom it may concern:

Be it known that I, DANIEL S. KRANCH, a citizen of the United States, residing at Barnesville, in the county of Schuylkill and State of Pennsylvania, have
5 invented certain new and useful Improvements in Rope-Clamps, of which the following is a specification.

This invention relates to certain new and useful improvements in rope-clamps and has for its chief
10 objects, the provision of a device that will both positively and frictionally engage a rope-end so that it cannot be pulled out; that will provide means for attaching a similar clamp, a suitable engaging hook or other coupling device, and that can be readily removed for the attachment of a new rope.

15 My improved clamp is especially adapted for use with ropes or cables used with grooved pulleys in power transmission where it is desirable to have no prominent projections on the surface of the clamps or rope couplings and where it is important to provide against
20 the edge of the clamp cutting the rope.

Having in view these objects and others of general utility, I have designed the clamp hereinafter described in detail and which is illustrated in the accompanying drawing which forms a part of this application
25 and in which:—

Figure 1 is an elevation of the clamp applied to the end of a piece of rope, and Fig. 2 is a view of the clamp detached and open.

Referring to the drawings in detail, it will be seen
30 that the clamp is made up of two complementary sections a , a^1 , which correspond in all details, and same are pivoted together at b . Each section consists of a semi-cylindrical main portion a^2 , an extension a^3 and a hook-shaped neck a^4 , the pivot extending through
35 the latter. On the inner wall of the main portion of each section a semi-cylindrical rib a^5 is formed which in cross-section is the shape of an inverted V. The inner wall of the portions a^3 are cut away or rounded out as at a^6 so that when the sections are
40 closed on the end of a rope an eye is formed which is adapted to be engaged by the neck portion of a corresponding clamp on the opposite end of the rope. The

extensions are further cut away to form a flat face a^7 , so that when two sections are assembled and pivoted together the faces a^7 lie on each other. 45

Rivet or bolt holes a^9 extend transversely through the walls of the portions a^2 and when the rope c is inserted in the clamp, a bolt or rivet d is passed through the sections and the rope, thus positively securing the latter in the clamp. 50

It will be noted that the outer walls of the sections taper inwardly from their pivoted ends, and that the inner walls from the ribs a^5 flare outwardly, such construction providing for the necessary strength of the clamp at the eye and for preventing the rope from being drawn at a sharp angle over the outer edge of the clamp when the latter passes around pulleys and the consequent cutting of the outer strands of the rope it being understood that the diameter of the rope is sufficiently less than the inner diameter of the clamp at
55 its edge to permit of some lateral play by the rope. 60

The ribs a^5 are pressed into the rope by drawing together the clamp sections, thus affording additional positive gripping action.

Having thus described my invention what I claim 65 and desire to secure by Letters Patent, is:—

A rope clamp consisting of two corresponding complementary semi-cylindric members each comprising a hook-portion having a flat face on one side and a rounded face on the opposite side, and a shoulder at the base of the hook, and comprising a clamping portion having gradually outwardly tapering walls from the hook-end to the outer end, said clamping portion also having a semi-annular rib projecting from its inner wall, each of said members also having a cut-away portion between its hook and clamping portions, whereby, when said members are connected, an eye will be formed in communication with the tubular clamping portion, and means for pivotally connecting the hooks with their flat faces in juxta-position, and means for rigidly connecting the clamping portions of said members together. 70 75 80

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL S. KRANCH.

Witnesses:

SAMUEL BEARD,
REBECCA S. BEARD.