

No. 891,532.

PATENTED JUNE 23, 1908.

M. FORDER.
COUPLING.

APPLICATION FILED OCT. 31, 1906.

Fig. 1.

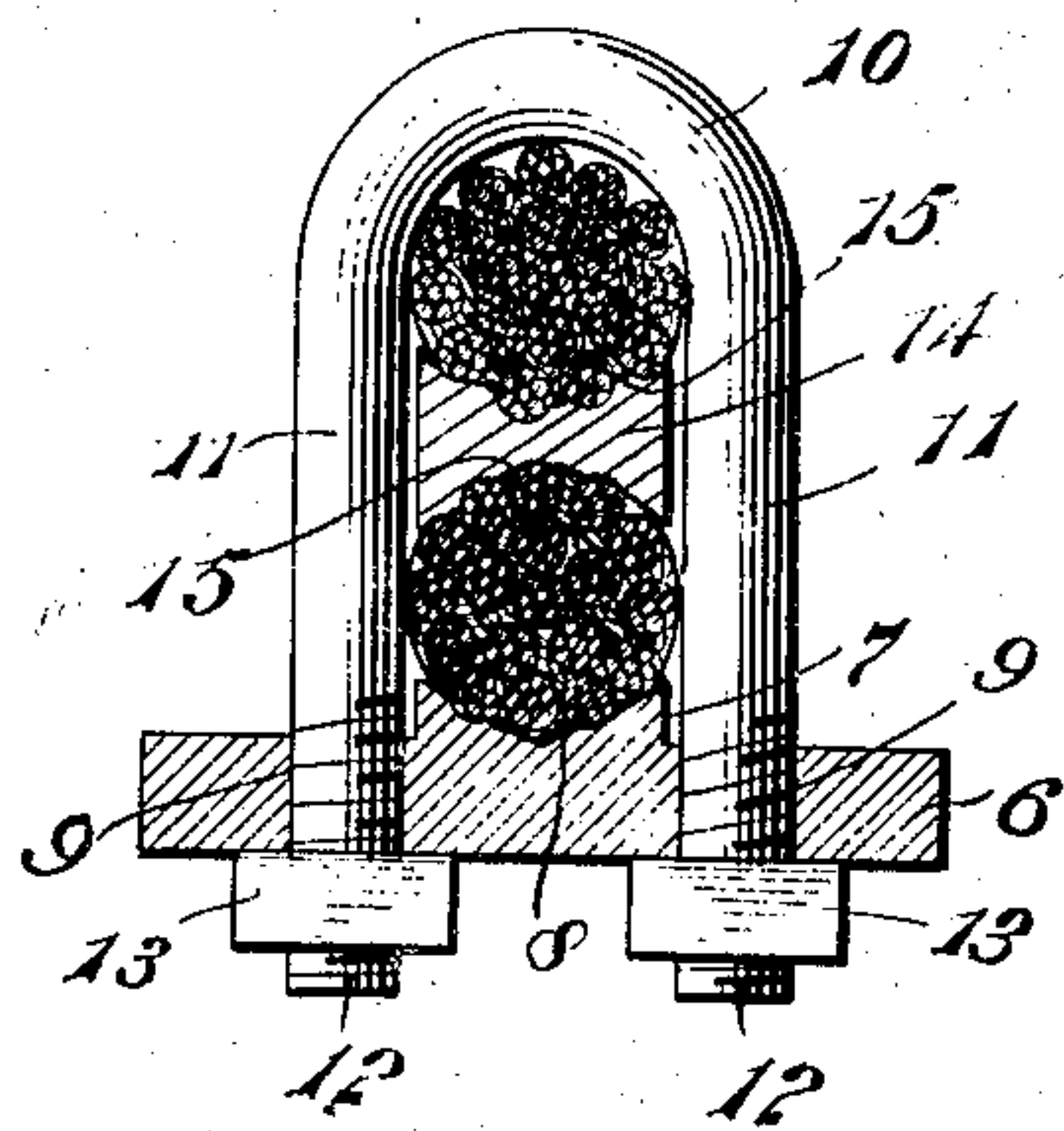
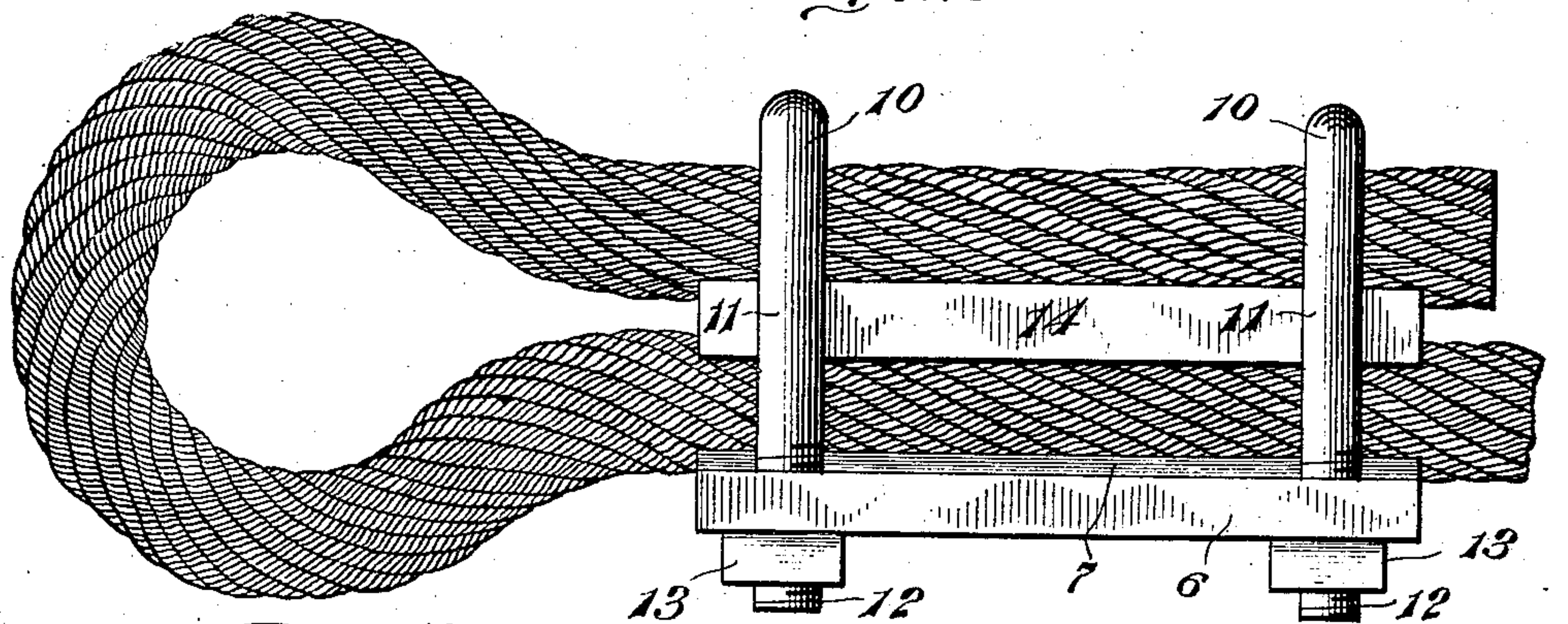


Fig. 2.

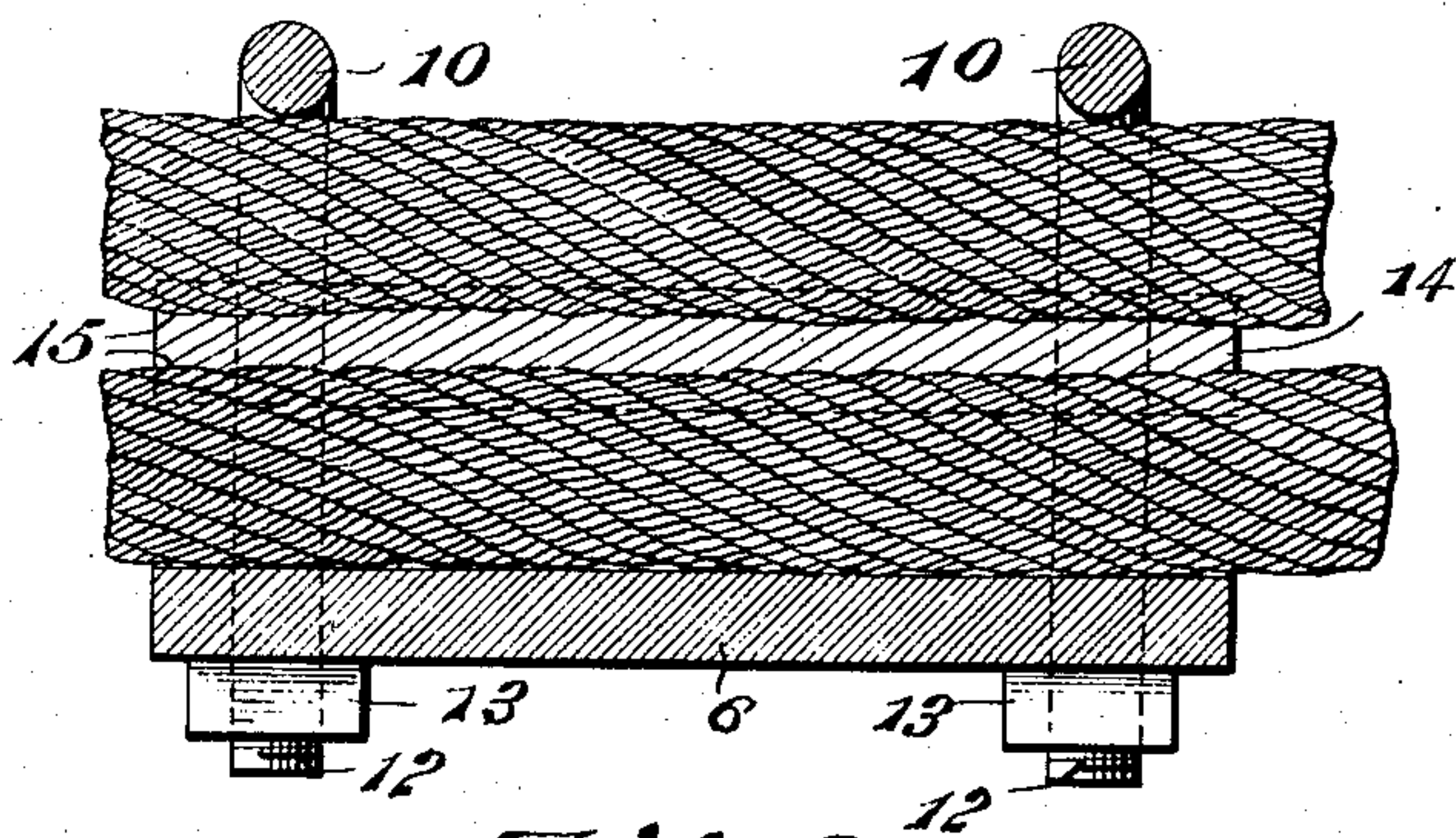


Fig. 3.

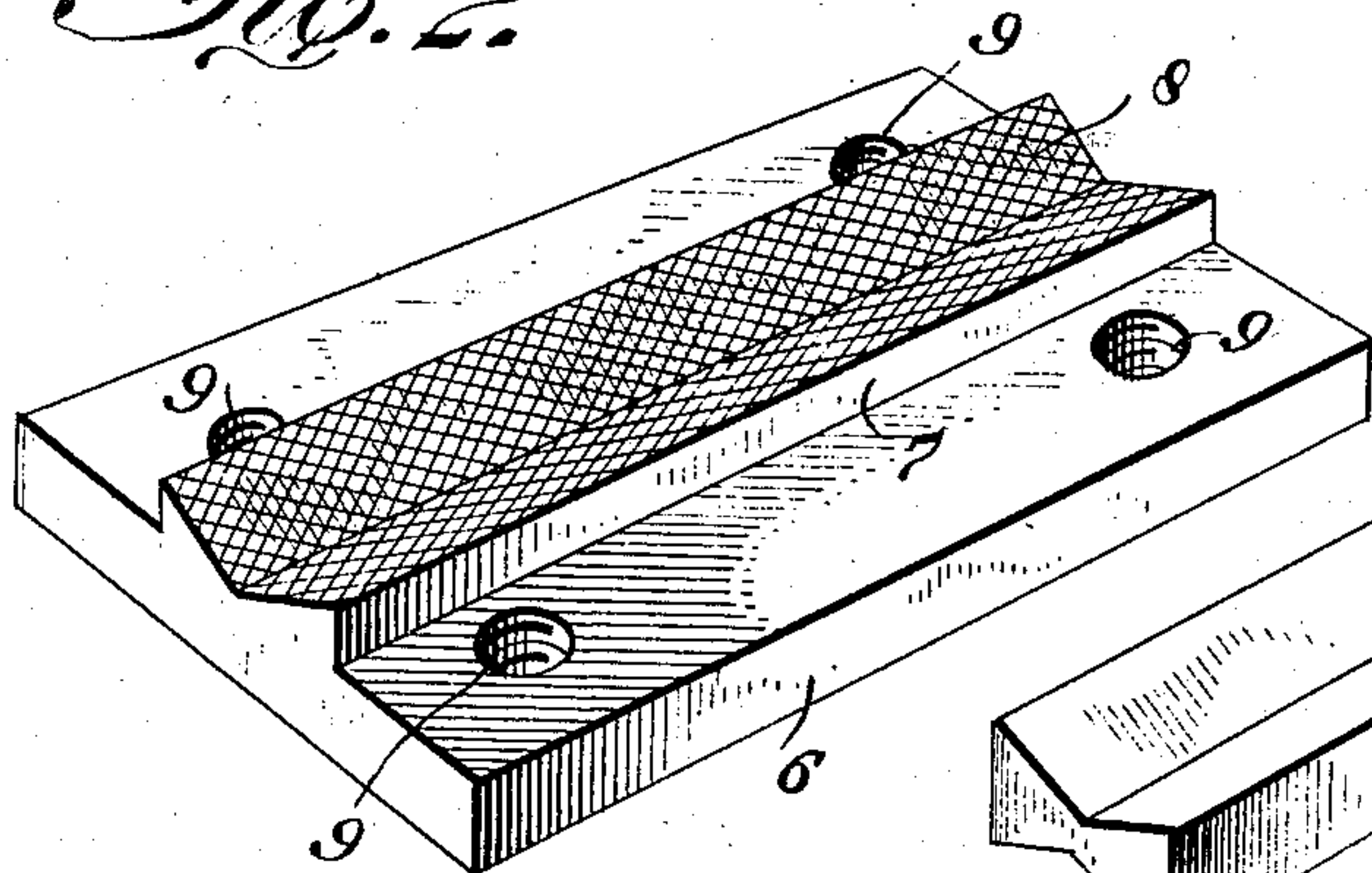


Fig. 4.

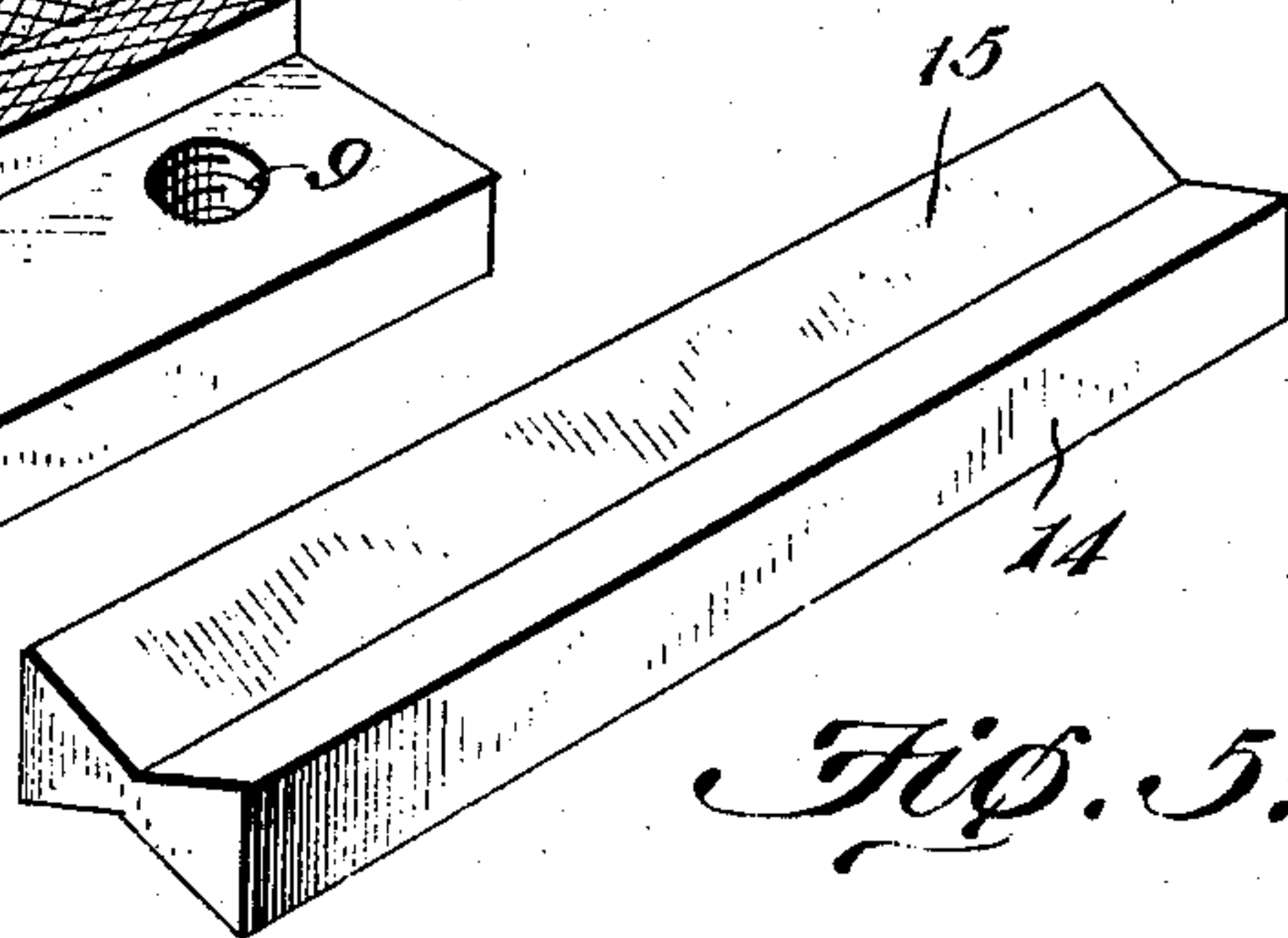


Fig. 5.

Milton Forder, Inventor.

By

E. G. Siggers

Attorney

Witnesses

J. Howard Bishop

B. J. Foster

UNITED STATES PATENT OFFICE.

MILTON FORDER, OF THIEF RIVER FALLS, MINNESOTA.

COUPLING.

No. 891,532.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed October 31, 1906. Serial No. 341,437.

To all whom it may concern:

Be it known that I, MILTON FORDER, a citizen of the United States, residing at Thief River Falls, in the county of Red Lake and State of Minnesota, have invented a new and useful Coupling, of which the following is a specification.

This invention relates to improvements in devices for coupling cables, rods, and the like, and the principal object is to provide a very simple, but highly efficient structure, which will lock with the parts to be coupled, so that their fixed relation, when clamped, is assured.

In the embodiment of the invention disclosed in the accompanying drawings, the structure is shown applied to a wire cable, and while peculiarly applicable to the same, is nevertheless useful in other analogous relations.

In the drawings:—Figure 1 is a side elevation, showing the portions of a cable held by the improved means. Fig. 2 is a cross sectional view therethrough. Fig. 3 is a longitudinal sectional view. Fig. 4 is a detail perspective view of the base plate. Fig. 5 is a similar view of the intermediate clamping block.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment disclosed, relatively adjustable outer clamping members are employed, together with an intermediate member of soft metal that is disposed between the outer members, and is arranged to be placed between the articles to be coupled. Thus in the present embodiment, one of the outer members consists of a base plate 6, having a longitudinally and centrally disposed rib 7 on one side, which rib is provided with a longitudinal seat 8 that is tapered or substantially V-shaped in cross section and is preferably roughened as shown in Fig. 4. Sets of openings 9 are formed in the plate on opposite sides of the rib. Associated with the said plate are other clamping members, in the form of U-shaped yokes 10, having side arms 11 that pass through the openings 9, the free terminals of the arms being threaded, as illustrated at 12. Nuts 13 are screwed upon the threaded ends, and bear against the outer side of the plate, thus serving to draw the yokes through the plate, as will be understood. While two yokes are shown in the present embodiment, it will be apparent that

one or more may be employed as desired. The intermediate member consists of a block 14, formed of lead or other soft material, the block being arranged to fit between the side arms of the yokes, and having longitudinally recessed seats 15 in its opposite sides, the seats being tapered or V-shaped in cross section.

In using the device, the soft metal block 14 is placed between the articles to be coupled, as for instance, the sections of a cable. The yokes embrace said articles or sections, and are passed through the openings in the plate, after which the nuts 13 are screwed home. The result is that the intermediate block or member will be securely clamped between the articles or sections, and being of soft metal, will conform substantially to the engaging faces thereof, entering the interstices, and thus interlocking with both sections. Consequently a peculiarly effective coupling is provided, which will efficiently hold the parts against relative movement, said coupling being readily attachable to and detachable from the parts thus connected.

It will be noted that the block 14 is entirely separate from the yokes, and is narrower than the distance between the arms thereof, so that it may be readily slipped into place. In like manner, the rib 7 is narrower than the distance between the yoke arms, these parts being furthermore of less width than the diameter of the cable so that their edges and the sharp corners will effectively engage the cable and prevent its slipping.

From the foregoing, it is thought that the construction, operation, and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction, may be resorted to within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. In a coupling of the character described, the combination with a base plate, of a yoke having spaced arms passing through the base plate, means for drawing the yoke through said plate, and an intermediate member of softer material than the base plate and yoke and of less width than the distance between

the arms of the latter, said member being independent of the arms and being detachably fitted between the same, being furthermore provided in its opposite faces with seats for the reception of cable sections placed in the yoke, said seats having angularly disposed faces.

2. In a coupling of the character described, the combination with a base plate having spaced sets of openings therethrough, and a rib projecting from one face and extending between the openings of the different sets and of less width than the distance between them, said rib having a cable receiving seat composed of angularly disposed flat faces, of a plurality of yokes, each having spaced arms passing through the openings of one of the

sets, means for drawing the yokes through said plate, and an oblong block of softer material than the base plate and yokes and of less width than the distance between the arms thereof, said block being detachably fitted between the arms and being provided in its opposite faces with seats for the reception of the cable section, said seats having angularly disposed faces.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

MILTON FORDER.

Witnesses:

ROBERT A. LEE,
L. M. HOOG.