

N. S. SKED.
ANCHORING DEVICE.
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1,368,296.

Patented Feb. 15, 1921.

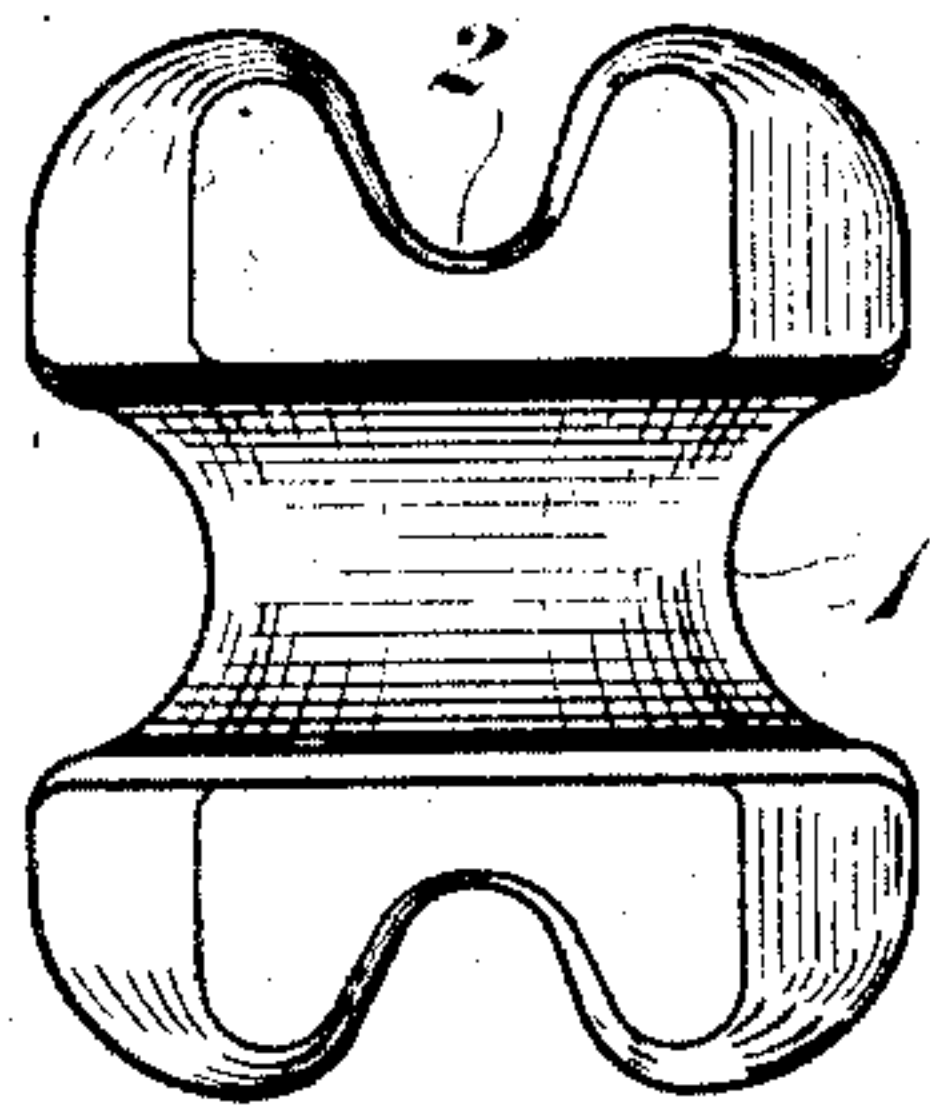


Fig. 1

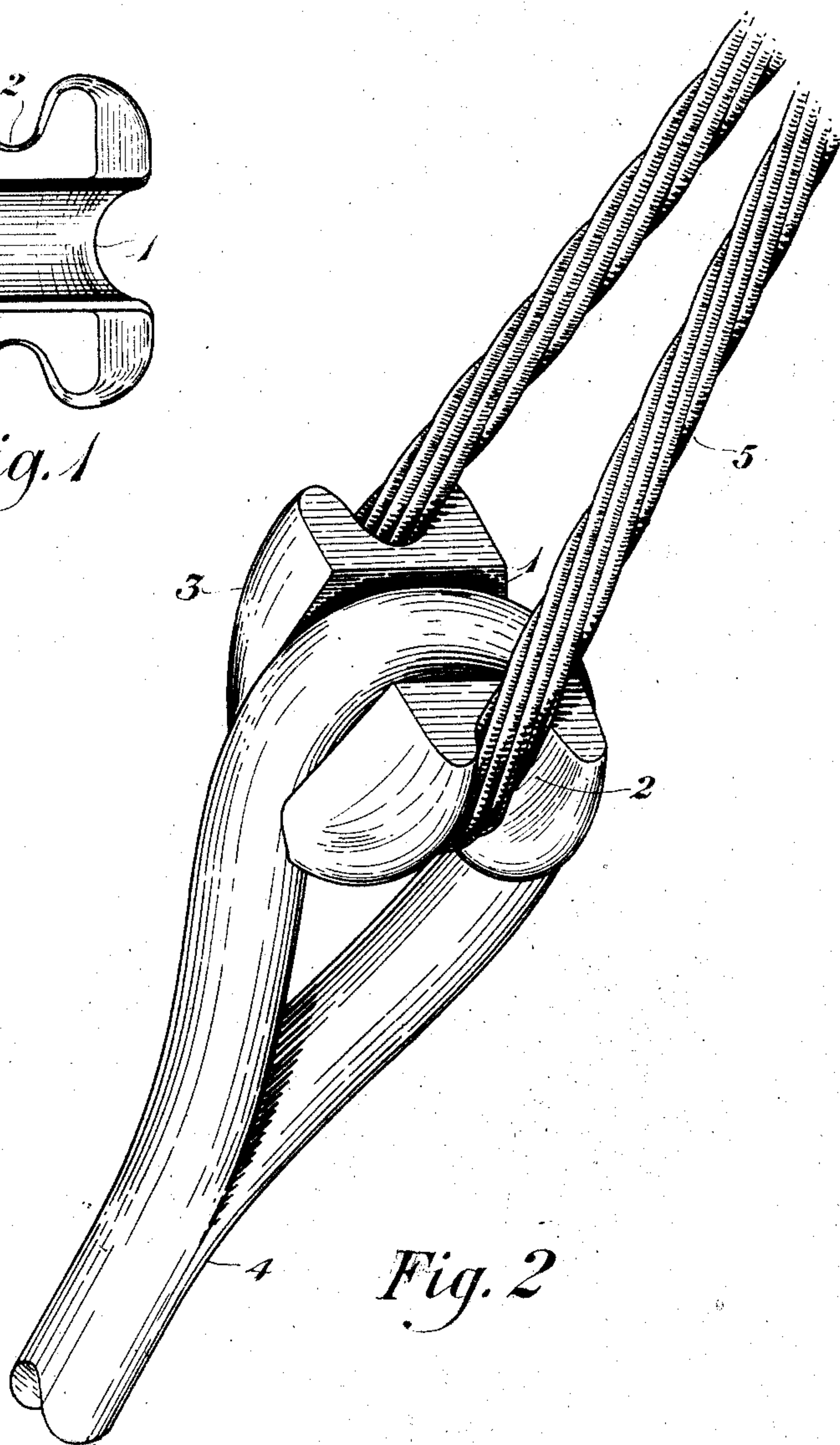


Fig. 2

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ANCHORING DEVICE.

1,368,296.

Specification of Letters Patent.

Patented Feb. 15, 1921.

Application filed March 28, 1918. Serial No. 225,295.

To all whom it may concern:

Be it known that I, NORMAN S. SKED, residing at Pennington, in the county of Mercer and State of New Jersey, have invented certain Improvements in Anchoring Devices, of which the following is a specification.

This invention relates to anchoring devices, and more particularly to improvements in the eyes of said devices through which a guy or other supporting stay may be looped whereby the strains arising from the bending or looping of the said guys or stays through the said eyes may be minimized.

In the construction of electrical transmission lines it is customary to reinforce the strength of the poles of these lines at points which are or may be subjected to excessive strains by extending a guy from a pole to an anchor buried in the ground, or to some other anchorage. One end of the guy, which usually consists of steel wires stranded together, is made fast to the pole, and the other end is looped through the eye or ring of the anchoring device. After the guy has been pulled to the desired tension, the free end is fastened to the standing portion of the guy. In order to avoid injury to the strands of the guy at the point where it passes through the eye of the anchoring device, while the guy is being pulled up, and after the guy has been made fast, it has been customary to insert a thimble in the eye of the anchor rod and to place the guy in the groove of this thimble prior to pulling the guy taut.

The thimble generally used, heretofore consisted of a grooved strip of metal bent into the shape of a horseshoe or a ring, and adapted to be linked with the eye thereby encircling, either partly or entirely, the rod forming the eye. The radius of curvature of the groove of the thimble is substantially the same as that of the guy, and the radius of curvature of the bend of the thimble is greater than the radius of a cross-section of the rod or bar forming the eye, at the point where the guy will normally rest when pulled taut. In practice it has been found difficult to prevent the thimble from becoming dislocated when the necessary tension was being applied to the guy, thereby permitting the guy to be bent around the rod forming the eye, and subjecting the strands of the guy to severe bending stresses. This

has necessitated releasing the tension on the guy and again readjusting it in the groove of the thimble. My invention substantially eliminates the trouble heretofore experienced, since the thimble is designed to fit tightly in the eye of the anchoring device, and to form a rigid combination therewith.

This invention will be more fully understood by referring to the accompanying drawing, in which Figure 1 represents a plan view of said thimble, and Fig. 2 represents the arrangement of the thimble within the eye of the anchor rod.

The thimble shown in Fig. 1 may be made of malleable iron or other suitable material, in substantially the form shown therein. The groove 1, which is adapted to receive the rod that forms the eye of the anchor, has approximately the same radius as the rod by which the eye is formed. The groove 2, which is adapted to receive the guy and to form an adequate bearing surface therefor, lies in a plane substantially perpendicular to the plane of groove 1 and has a radius that practice has shown to be sufficient to prevent injury to the strands of the guy at this point when the guy is placed under tension. The thimble in Fig. 1 is represented as having only a single groove for the reception of a guy. It should be understood, however, that the invention is not limited to this single form since a thimble may be made having either a single groove capable of receiving a plurality of guys, or a plurality of separate grooves, each capable of holding a single guy.

The thimble is attached to the anchoring device, as shown in Fig. 2, by bending or forming the anchor rod around the thimble in such manner that, when bent in the position shown in Fig. 2, the rod will fit closely into groove 1 of the thimble. The free end of the rod is then welded or otherwise fastened to the other portion of the rod at point 4 thereby forming the eye. The rod and thimble, shown in Fig. 2, may then be galvanized or otherwise treated to prevent rusting. By properly designing the thimble and by carefully adjusting the anchor rod to the thimble in the process of assembling the parts it is practicable to obtain a combination of eye and thimble that will remain stable when subjected to the strains due to pulling up the guy that rests in the groove 2 of the thimble. It will

be seen, therefore, that by means of this invention, the difficulty heretofore experienced has been substantially eliminated.

Although the invention has been shown and described as embodied in a particular form, it is evident that it is not restricted or limited to such form, and that it is capable of embodiment in other forms within the scope of the appended claims.

10 What is claimed is:

1. In an anchoring device, the combination of an anchor rod having an eye formed in one end thereof, and a thimble having two grooves, one of which is adapted to 15 closely cooperate with that part of the rod forming the eye, so that the thimble will be rigidly held in definite position in the said eye, and the other groove being adapted to form a bearing surface for a guy wire that 20 may be looped through the eye of the said anchor rod.

2. In an anchoring device, the combination with an anchor rod adapted for connection with a guy of a thimble having two 25 grooves therein, the planes of which are substantially perpendicular to each other, one of said grooves being adapted to fit within the eye of the said rod and to be rigidly

held therein and the other of said grooves adapted to form the bearing surface for 30 the said guy.

3. In an anchoring device, the combination with a thimble having therein two grooves, the planes of said grooves being substantially perpendicular to each other, of 35 a rod adapted to be formed into one of said grooves and having its free end securely attached to the main portion of said rod whereby the thimble is rigidly fastened to said rod and a guy adapted to be formed 40 into the other of said grooves.

4. In an anchoring device, the combination with an anchor rod adapted for connection with a guy of a thimble rigidly held within the eye of the said rod by the pressure of the sides of the said eye upon the 45 said thimble, and adapted to provide for the said guy a bearing surface of large radius, that is continuous and unbroken throughout the path of contact of the said 50 guy with the said bearing surface.

In testimony whereof I have signed my name to this specification this 25th day of March, 1918.

NORMAN S. SKED.