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P. G. FITZPATRICK

1,621,530

DEAD ENDING CLAMP

Filed Aug. 16, 1924

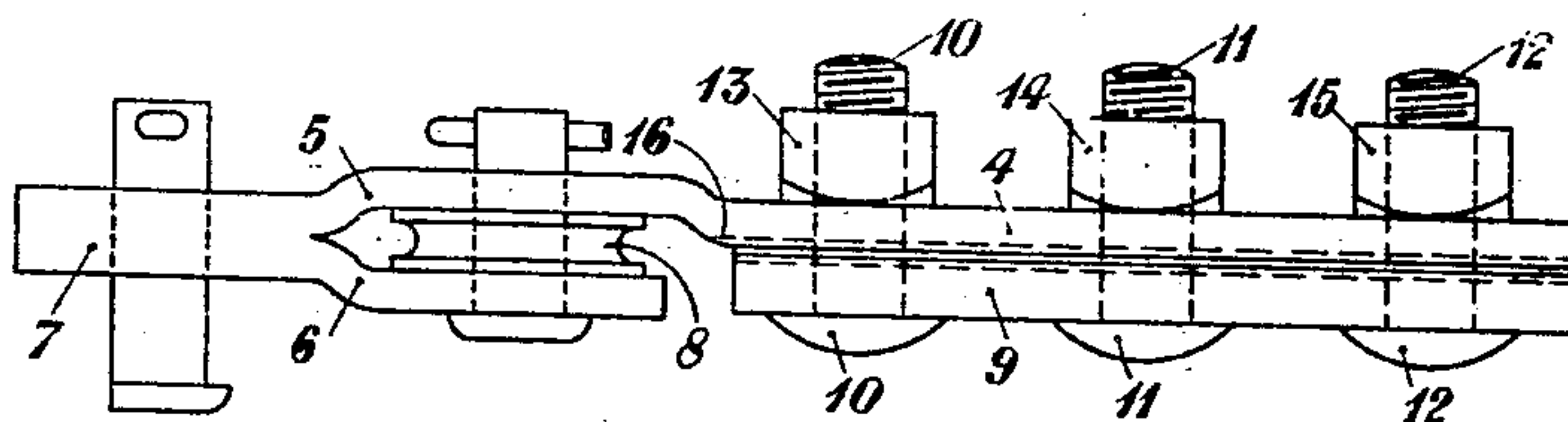


Fig. 1

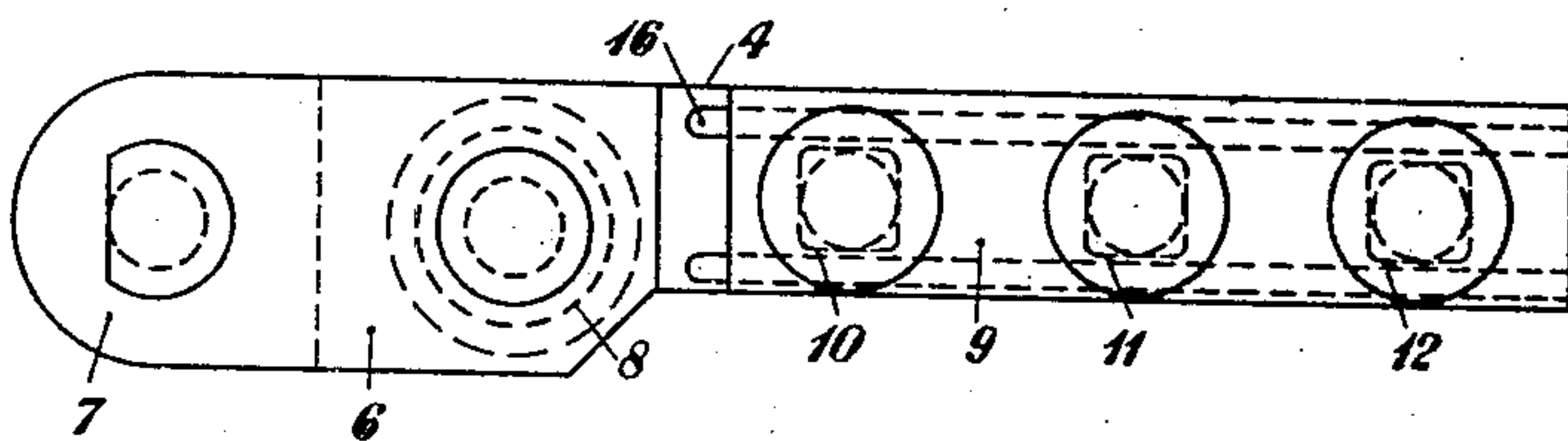


Fig. 2

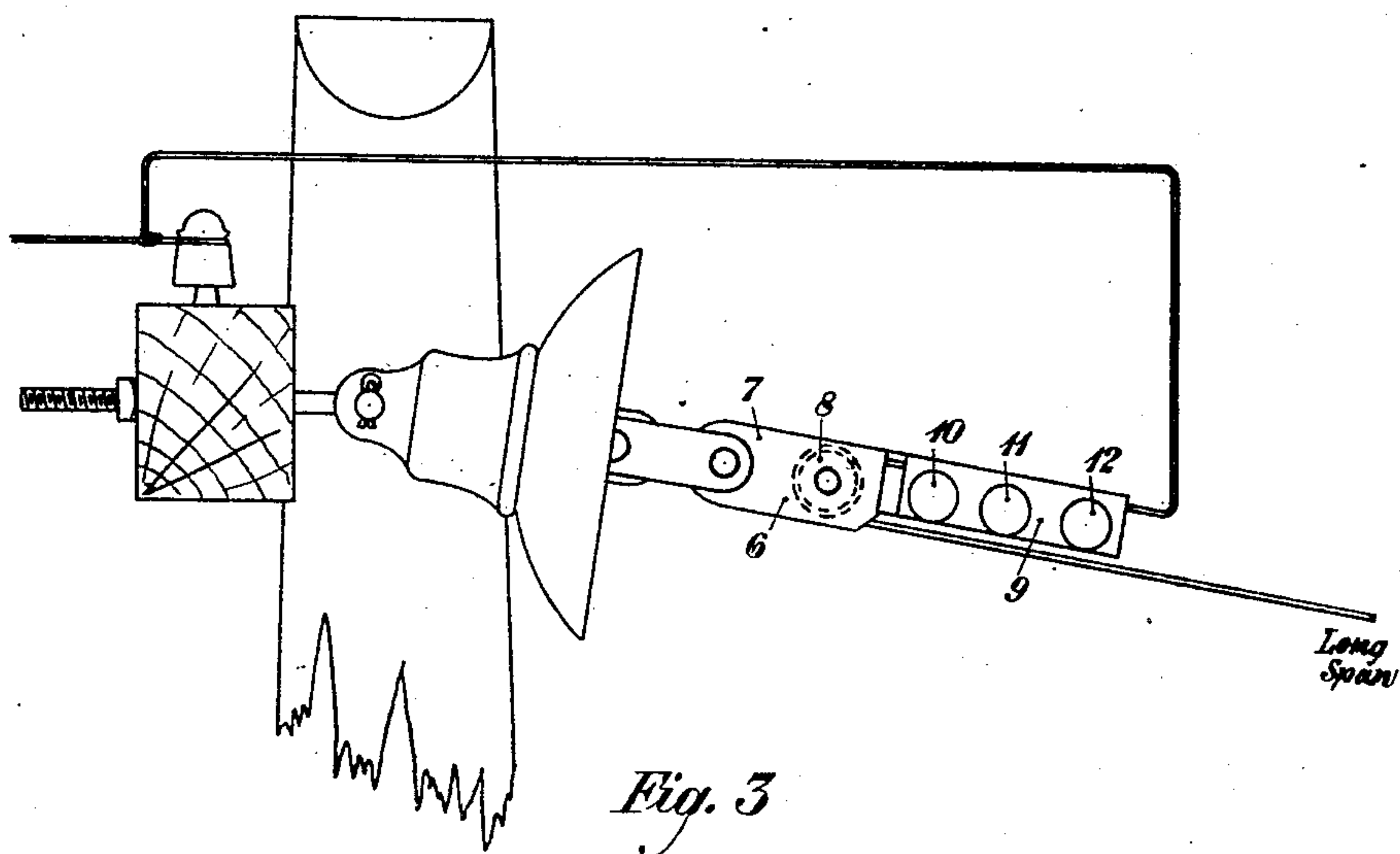


Fig. 3

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DEAD-ENDING CLAMP.

Application filed August 16, 1924. Serial No. 732,526.

This invention relates to dead ending clamps, and more particularly to dead ending clamps for use in dead ending wire at long span crossings, such as river crossings.

It has been found in the cases of the dead ending clamps heretofore in general use that the vibration of the wire tends to break the wire near the point where it enters the clamp. The object of applicant's invention is the elimination of this tendency toward breaking of the wire near the clamp.

Applicant's clamping device consists essentially of two clamp plates, means for securing these clamp plates in position over the wire, and a grooved wheel so positioned that the end of the wire is carried over the wheel before entering the clamp plates.

The invention will be more clearly understood when the following detailed description is read with reference to the accompanying drawing, which shows one desirable embodiment of the invention. Figure 1 of the drawing is a top view of the device; Fig. 2 is a side view of the same; and Fig. 3 shows the clamp in position, attached to a crossarm, and with the wire carried over the wheel and secured between the clamp plates. Like numerals of reference in the several figures of the drawing designate corresponding parts of the device.

With reference to the details of the drawing, the principal member of the device comprises the clamp plate 4, the arms 5 and 6 of the wheel bracket or fork, and the portion 7 adapted to be secured to the crossarm or other support by suitable attaching means. The wheel 8 is grooved and is rotatably mounted between the bracket arms 5 and 6, as is clearly shown in Fig. 1, sufficient space being allowed for the free passage of the wire about or over the wheel. The clamp plate 9 corresponds to the clamp plate portion 4 of the principal member, and with said portion forms the clamping means proper. As is clearly shown in Figs. 2 and 3, the form of the principal member and the position of the wheel are such that the end of the long span of the wire is carried clear of the clamp plates and over the wheel before it enters the clamping means proper. Having been carried over the wheel, the wire is then brought back and clamped between the portion 4 of the principal member and the clamp plate 9, as is shown in Fig. 3. The clamp plates

are secured in position over the wire by means of the bolts 10, 11 and 12 and of the corresponding nuts 13, 14 and 15. The corners of the groove 16 in the clamp plate portion 4 of the principal member should be rounded.

It is readily understood from the above description and from reference to the drawing that the use of applicant's clamp reduces to the minimum the bending of the wire at the clamp and eliminates contact of the wire with sharp edges. Consequently, the vibration of the long span will not tend to break the wire.

It is to be understood that the above detailed description merely covers one desirable embodiment of applicant's invention and that many modifications and changes may be made within the scope of the invention, which is determined by the appended claims.

What is claimed is:

1. A dead ending clamp comprising a member having a forked portion and a clamp plate portion, a grooved wheel rotatably mounted within said forked portion, and a second clamp plate, said wheel being so positioned that the end of a span of wire will be carried over the wheel before passing between the clamp plates.

2. Means for dead ending a long span wire, said means consisting of a member having a forked portion and a clamp plate portion, a grooved wheel rotatably mounted within said forked portion, and a second clamp plate, said clamp plates and said wheel being so disposed that the long span wire end is carried over the wheel before entering the clamp plates.

3. A dead ending clamp comprising a principal member consisting of a clamp plate portion and a forked portion, a second clamp plate, means for securing said second clamp plate in position opposite the clamp plate portion of the principal member, and a grooved wheel rotatably mounted within the forked portion of the principal member, said wheel being so positioned that the end of a span of wire will be carried over the wheel before passing between the clamp plates.

In testimony whereof, I have signed my name to this specification this 15th day of August, 1924.

PAUL G. FITZPATRICK.