

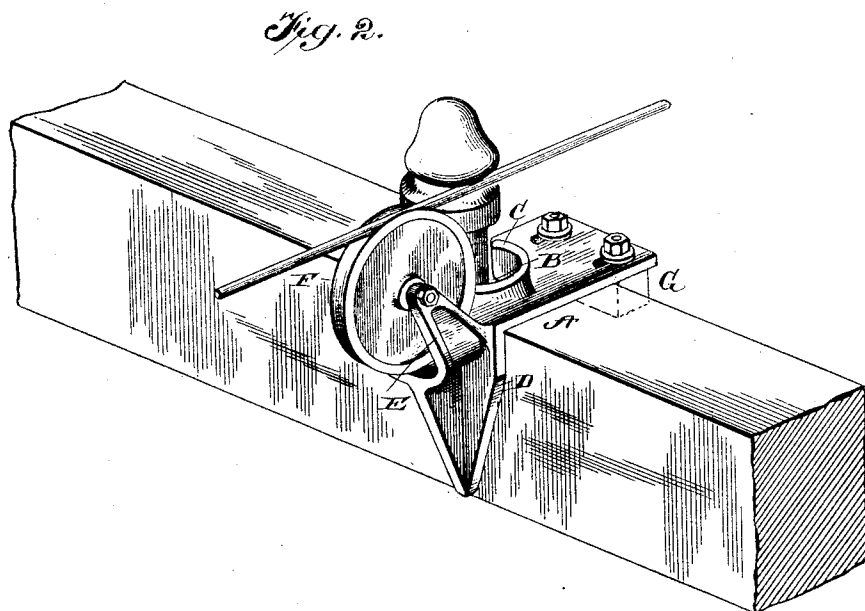
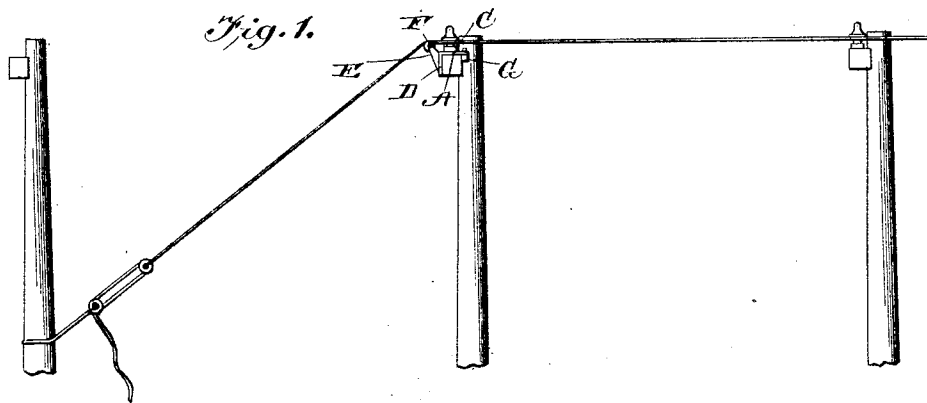
(No Model.)

H. P. BALL.

DEVICE FOR STRETCHING HEAVY WIRES ON POLES.

No. 461,109.

Patented Oct. 13, 1891.



Witnesses

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DEVICE FOR STRETCHING HEAVY WIRES ON POLES.

SPECIFICATION forming part of Letters Patent No. 461,109, dated October 13, 1891.

Application filed March 21, 1891. Serial No. 385,948. (No model.)

To all whom it may concern:

Be it known that I, HENRY PRICE BALL, a citizen of the United States, residing at 1032 Bedford avenue, Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Devices for Stretching Heavy Wires on Poles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention is an improved device for use in stringing heavy wires, and aims to provide a simple and cheap device by the use of which very heavy wires can be more easily and rapidly hung on the poles than is now possible.

The invention consists of certain novel features hereinafter pointed out.

In the accompanying drawings, Figure 1 is a side elevation of a series of poles, showing the manner of stringing the wires, while Fig. 2 is a perspective view, on a larger scale, of an insulator and a portion of the cross-beam with my improved device in position thereon.

My improved device consists, primarily, of a base-plate A, of any suitable material, provided with a concave recess B in one edge and a circular rib C around said recess, as clearly shown. This recess permits the device to fit around the insulator, so as to bring the roller presently referred to into the proper position to guide the wire to the groove of the insulator. The rib, furthermore, aids in holding the device steady upon the cross-arm and thus prevents slipping of the wire.

From one edge of the base-plate A extends a bearing-plate D, that rests against the side of the cross-arm, and thereby prevents the device from tipping over upon the cross-arm as a center. Arms or lugs E project upward from the angle of this bearing-plate and the base-plate, and in the said arms E, I journal the axle of a roller F, having a grooved periphery.

To the edge of the base-plate opposite the bearing-plate I adjustably secure the stop or

rest G, which is adapted to bear against the adjacent side of the cross-arm, and thereby hold the device firmly in position. By securing the stop adjustably to the base-plate I am enabled to fit the device readily to a cross tree or arm of any width.

In practice the holder or guide (my improved device) is secured upon the cross-arm, as shown most clearly in Fig. 2, and the wire is then carried to the top of the several poles in the usual manner and fitted into the grooves of the insulators, so as to pass therethrough in the usual or any preferred manner, my holder or guide being secured upon the last pole of the series and on that side which is next to the stay-pole. The end of the wire is then passed over the roller and down to the stretching device at the foot of the stay or guy pole, after which the said stretching device is operated to draw the wire taut upon the poles.

It will be seen at once that the wire will pass over the roller more easily and readily than it will pass over the edge of the cross-arm, and that the insulated covering of the wire will not be broken or injured, as is so often the case now when the wire is drawn over the edge of the cross-arm. Furthermore, there is less strain upon the stretching device when my device is used, for the reason that there is less friction between the wire and the roller than there would be between the wire and the edge of the cross-arm, and consequently there is less work required of the stretching device. Without my device the stiffness of heavy wires causes them to kink and stick to the cross-arm, pulling the same crooked and often breaking it off; but when my device is employed the wire is held from the cross-arm, and consequently cannot strike against the same.

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

1. A device for the purpose described, consisting of a base-plate having a recess adapted to fit around the insulator, and a roller carried by the said base-plate, substantially as set forth.

2. The combination of a cross-arm, pin, and

insulator with a metal plate to fit over the upper corners of the cross-arm and a grooved roller mounted thereon, the groove in the roller being in line with the groove of the insulator,
5 as described.

3. The combination of a cross-arm, a plate to fit upon the same, with a roller supported

thereby, and an insulator supported by said cross-arm, as specified.

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Witnesses:

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