

V. KONOPINSKI.

POLE PROTECTOR.

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985,605.

Patented Feb. 28, 1911.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

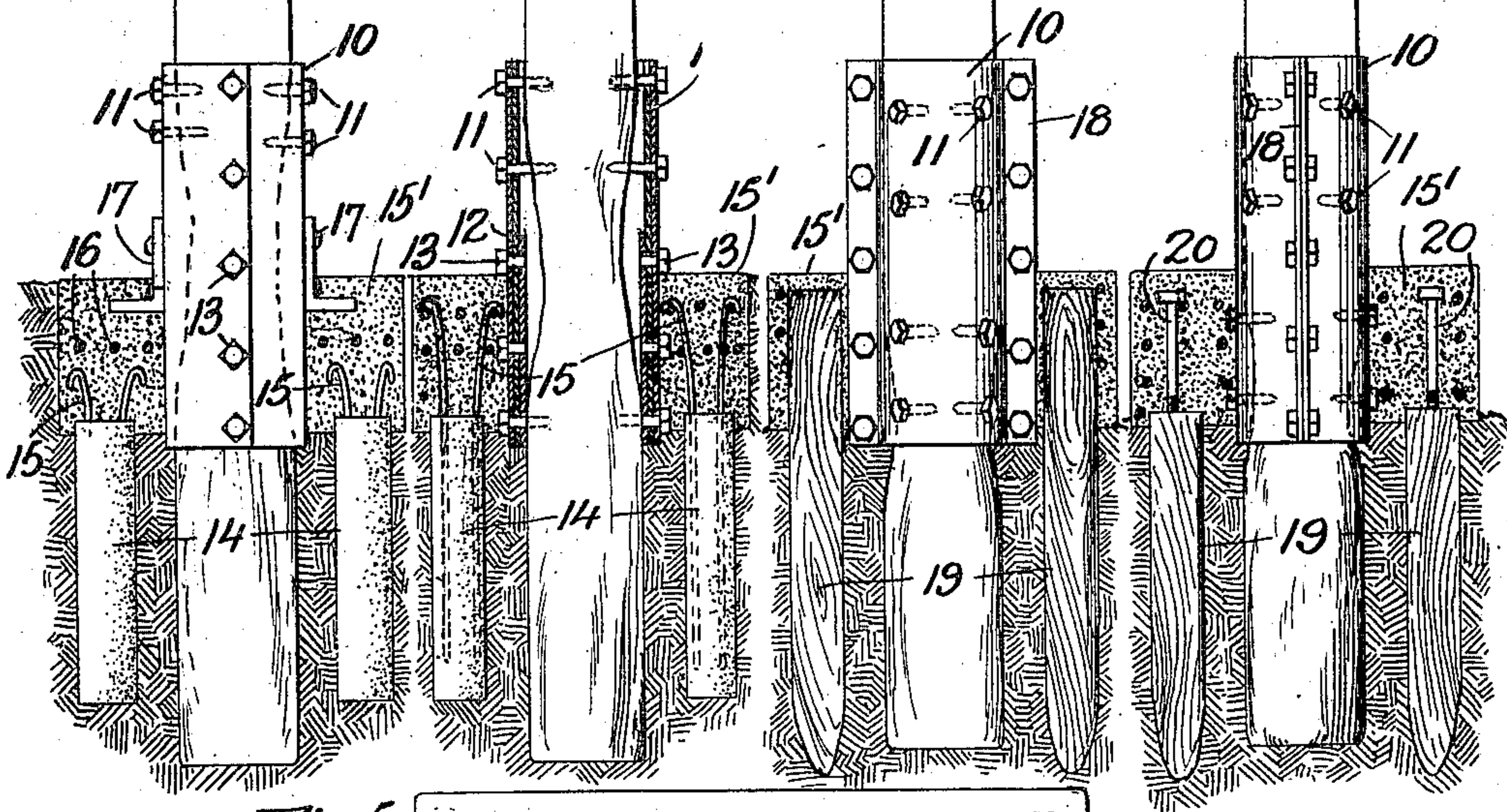
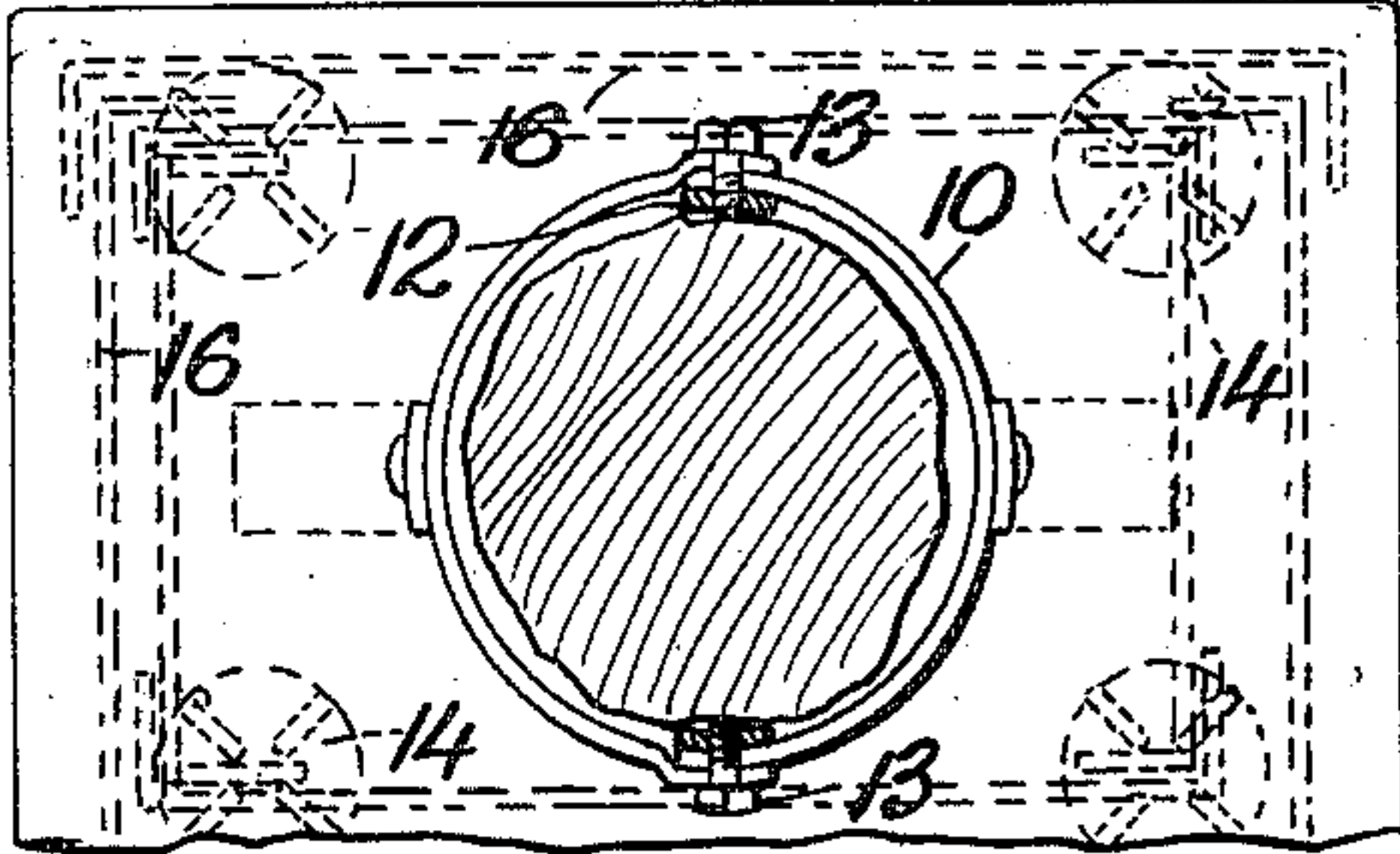


Fig. 5.

WITNESSES

H. H. Lybrand
Alan T. Garner



INVENTOR

Valentine Konopinski,
BY
Victor J. Evans
ATTORNEY

UNITED STATES PATENT OFFICE.

VALENTINE KONOPINSKI, OF BROOKLYN, NEW YORK.

POLE-PROTECTOR.

985,605.

Specification of Letters Patent.

Patented Feb. 28, 1911.

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To all whom it may concern:

Be it known that I, VALENTINE KONOPINSKI, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Pole-Protectors, of which the following is a specification.

This invention relates to pole protectors, and its object is to provide a substantial protector and reinforcer for a pole or pile while it is standing in the ground, without removing same or otherwise interfering with the flanges of the pole, as will be more fully described in the following specification set forth in the claims and illustrated in the drawings, wherein,

Figure 1 is an elevation of the pole with the improved protector applied thereto. Fig. 2 is a similar view with the protecting sleeve in section. Fig. 3 is a modified form of sleeve. Fig. 4 is a similar view with the position of the sleeve changed. Fig. 5 is a cross sectional view.

Applicant is aware that pole protectors have been provided wherein the ends of the poles are completely enveloped by some protecting material in conjunction with cylinders and sleeves which are placed around the end of the pole at the ground line or at points where they are subjected to wear and decay, but the object of this invention is to apply a protector to a pole already standing and in use, without disturbing or removing it.

In carrying out this invention, a sleeve 10, preferably of metal and made in longitudinal sections is applied to the pole at the ground line and at a point where it is worn away or decay has started which would endanger the pole and be very apt to permit of its breaking at that point.

As will be seen in Fig. 5, the sleeve 10 is made in two sections, the ends of one of the sections overlapping the other and at points where the pole is in a good state of preservation, bolts 11 may be screwed or driven, but at intermediate points where the pole is worn away to a greater degree, strips 12 are inserted at the rear of the joints to afford engaging means for shorter bolts 13.

At suitable points around the pole are placed anchor posts 14, which are preferably four in number and may consist of concrete molded in holes prepared for them, and have at their upper ends hooks 15 or other engaging means, the upper ends of

these posts being located a short distance below the surface of the ground.

After the sleeve 10 has been located and secured on the pole, a pit which has been already prepared and which is preferably rectangular in shape, is filled with concrete, covering and enveloping the upper ends of the posts 14 and the lower end of the sleeve 10, and in this flange or block of concrete may be placed binders 16 of metal in order to make a firm and rigid base and structure. The flange in its formation would be firmly secured around the sleeve, but in order to insure greater solidity in the construction of this protector angle pieces 17 are secured to the sections of the sleeve and project into the flange 15', strengthening the latter and more effectually securing it to the sleeve. The structure is now practically of one piece and lateral strains which may exist at the upper end of the pole is relieved by the solid and substantial structure about its base.

In the modified form of this device shown in Figs. 3 and 4, the sections of the sleeve may be secured together by flanges 18 which may be so disposed as to further relieve the strain which might be put upon the upper end of the pole from one side to the other, these flanges always pointing in the direction in which the wires are strung as strains are always at right angles to the direction of the lines and therefore, may be relieved by the flanges 18 which, with the sleeve are embedded in the block or flange 15' as herein before described. The anchor posts 19 in these latter forms may be of wood and driven into the ground. Their upper ends may be coated with tar or paraffin before the concrete is poured in, and bolts or similar devices 20 may be inserted in the upper ends of these posts in order to more firmly connect them with the flanges 15'. This modified form may also be provided with the binders 16, but it may be constructed entirely above the surface, and the posts 19 only need penetrate the soil.

It is obvious that other modifications may be indulged in to include anchor posts, a concrete flange and a sleeve which may be placed in position while the post is standing without departing from the essential features above described.

What I claim as new and desire to secure by Letters Patent is;—

1. In a pole protector, the combination with a pole or pile, of a sleeve made in sec-

tions and adapted to be fitted on same at the point where it enters the earth, anchor posts parallel with and surrounding the pole, and a concrete flange molded about the sleeve and the anchor posts.

2. In a pole protector, the combination with a pole or pile, of a metallic sleeve adapted to be applied to same at the surface of the ground, anchor posts in the ground and surrounding the pole, and a concrete flange reinforced with metallic binders molded around the lower end of the sleeve and about the upper end of the anchor posts and uniting therewith.

3. In a pole protector, the combination with a pole or post adapted to have its lower end lodged in the ground below the surface, of a metallic sleeve made in sections joined longitudinally and applied to the pole at the ground line, posts in the

ground beneath the surface and having keys at their upper ends, a concrete flange at the lower end of the sleeve and enveloping the upper ends of the posts, and metallic binders in the flange for reinforcing same.

4. In a pole protector, the combination with a pole whose lower end is lodged in the ground, of a metallic sleeve made up of longitudinal sections and secured to the pole near its lower end, strips within the sleeve, a concrete flange around the sleeve at the ground line, reinforcing metallic strips in same, and anchor posts surrounding the pole and connected with the reinforcing strips.

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

VALENTINE KONOPINSKI.

Witnesses:

JAMES F. DUHAMEL;

GEO. A. SENIOR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."