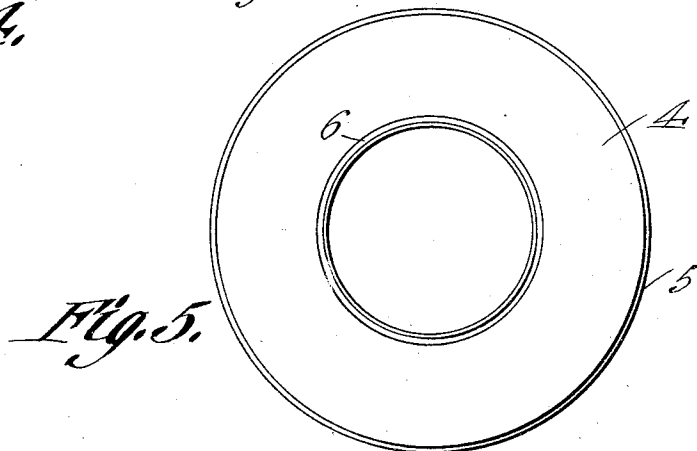
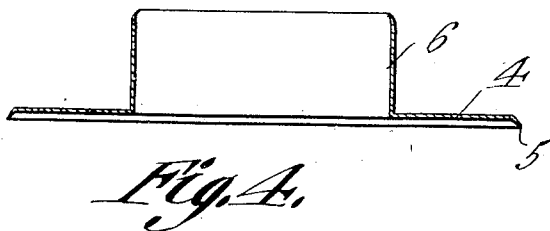
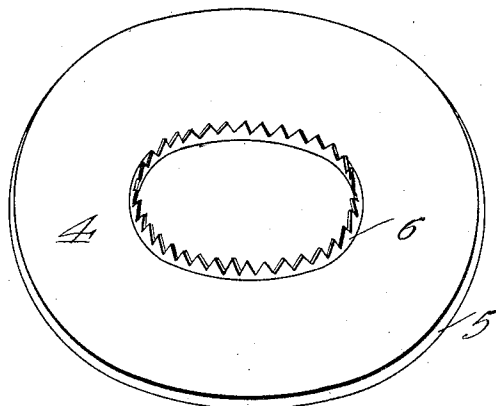
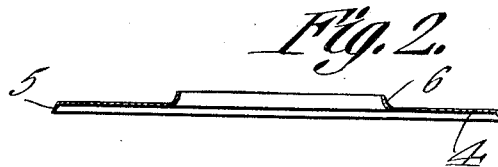
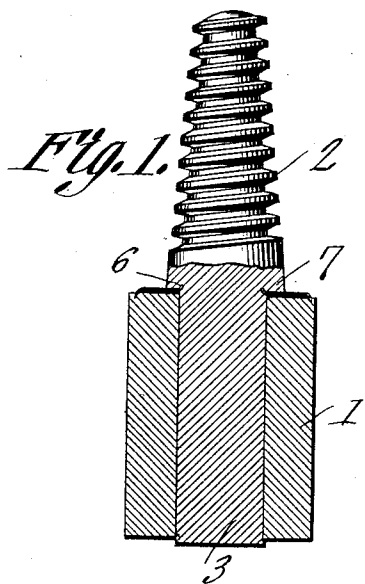


H. G. NEWELL.
 PROTECTOR FOR TELEGRAPH AND TELEPHONE CROSS ARMS AND PINS.
 APPLICATION FILED OCT. 7, 1912.

1,065,068.

Patented June 17, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

HENRY G. NEWELL, OF LE RAYSVILLE, PENNSYLVANIA.

PROTECTOR FOR TELEGRAPH AND TELEPHONE CROSS-ARMS AND PINS.

1,065,068.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed October 7, 1912. Serial No. 724,411.

To all whom it may concern:

Be it known that I, HENRY G. NEWELL, a citizen of the United States, residing at Le Raysville, in the county of Bradford and State of Pennsylvania, have invented a new and useful Protector for Telegraph and Telephone Cross-Arms and Pins, of which the following is a specification.

My invention is a device for preventing water from entering into the joint between the cross arm of a telegraph pole and the pins which are mounted thereon. By thus preventing moisture from getting into the said joints it is found that the life of these members is greatly increased.

With this and other objects in view my invention consists of certain novel features of construction, herein described and illustrated in the accompanying drawing, in which—

Figure 1 is a cross sectional view of a cross arm and pin, with my improved protector attached thereto. Fig. 2 is a side view of my protector. Fig. 3 is a perspective view of the same. Fig. 4 is a slightly modified form of my protector. Fig. 5 is a top view of Fig. 4.

In the drawing, 1 is a wooden cross arm such as is commonly used on telegraph and telephone poles, a wooden pin 2 being shown connected thereto and having the usually lowered portion 3 extending down into a hole in the cross arm, all of which is of the usual form and construction.

My protector as shown in Fig. 1, is placed between the shoulder of pin 7 and the upper surface of the cross arm and consists of a flat thin body portion 4, around the outer edge of which is the downwardly extending flange 5, said flange terminating in a knife-like or saw-tooth edge so that the said flange may be readily driven into the wooden cross arm as shown in Fig. 1. The body portion 4 is provided at its inner edge with an annular upturned flange 6 which flange has at its extremity a knife-like edge which may also be serrated as shown in Fig. 3. By thus constructing the flange 6, it is readily driven into the wooden pin 2.

A somewhat modified form of protector is shown in Fig. 4, in which the flange 6 is somewhat elongated and is adapted to fit over the pin 2. Its extreme edge adapted to be bent against and driven into the said pin.

By the use of my protector, water and moisture is prevented from entering between the pin and cross arm, thereby preventing the premature decay of both pin and cross arm and lengthening the life of each at its most vulnerable point.

My protector may be made of metal, but I do not wish to limit myself to the same, neither do I wish to be limited to a protector whose body portion is circular, as the same may be square or triangular and not depart from the spirit of my invention.

Having thus described my invention what I claim to be new and original with me is:—

1. A joint protector comprising a flat thin body portion provided with a centrally located aperture therein, a downwardly extending flange formed integral therewith and at the outer periphery thereof, an upwardly extending flange formed integral with said body portion and at the inner periphery thereof, the extremities of said flanges formed with knife-like edges.

2. A joint protector comprising a flat relatively thin body portion with an aperture located centrally therein, a downwardly extending flange formed integral therewith and at the outer periphery thereof and provided with a knife-like edge, an upwardly extending flange formed integral with said body portion and at the inner periphery thereof and provided with a serrated knife-like edge.

3. A joint protector comprising a circular relatively thin flat body portion, a flange formed at the outer periphery thereof and extending downwardly therefrom and provided with a knife-like edge, said body portion provided with a circular aperture located centrally thereof, an upstanding flange formed integral with said body portion at the inner periphery thereof, the upper extremity of said last mentioned flange bent inward and provided with a knife-like edge at its extremity.

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

HENRY G. NEWELL.

Witnesses:

CHAS. MILLER,
F. D. ROBBINS.