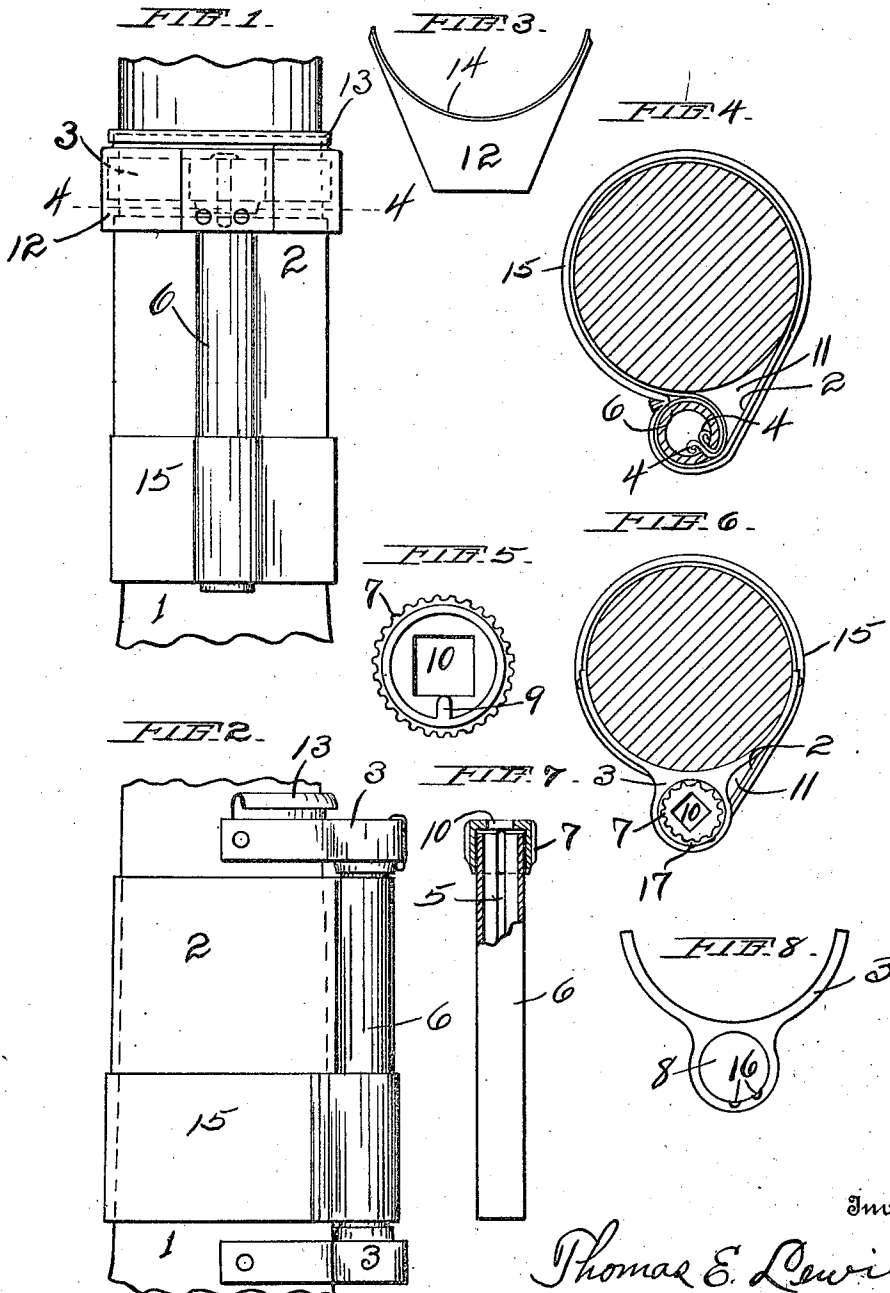


T. E. LEWIS.
 APPARATUS FOR PRESERVING AND PROTECTING POLES AND THE LIKE.
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1,353,598.

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Inventor,
 Thomas E. Lewis.
 By A. L. Jackson,
 Attorney

UNITED STATES PATENT OFFICE.

THOMAS E. LEWIS, OF FORT WORTH, TEXAS.

APPARATUS FOR PRESERVING AND PROTECTING POLES AND THE LIKE.

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To all whom it may concern:

Be it known that I, THOMAS E. LEWIS, a citizen of the United States of America, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Apparatus for Preserving and Protecting Poles and the like, of which the following is a specification.

My invention relates to protectors for preserving wood posts and more particularly such devices as electric light, telephone and telegraph poles; and the object is to provide devices which are simple in construction which can be readily applied to any post or pole, and which will preserve the pole against the ravages of weather conditions by keeping out moisture and other elements of the earth. Another advantage of the improved devices is that they will brace the posts or poles. Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application.

Figure 1 is a front elevation of the devices applied to a pole which is broken away, the long dotted line indicating the ground line. Fig. 2 is a side elevation of the same with the protecting hood omitted. Fig. 3 is a plan view of the protecting hood. Fig. 4 is a horizontal section, taken substantially on the line 4—4 of Fig. 1. Fig. 5 is an inverted view of the rotor or rotating sleeve. Fig. 6 is a plan view of the devices with the hood removed. Fig. 7 is an elevation of the rotating devices, partly in section. Fig. 8 is a plan view of the yoke which supports the devices while they are being adjusted.

Similar characters of reference are used to indicate the same parts throughout the several views.

In the drawings, a pole or post 1 is shown broken away and a band 2 of sheet metal is wrapped on a portion of the pole above and below the level of the surface of the earth. The means for wrapping the sheet metal 2 on the pole include a slotted tube 6 having a vertical slot 5. The edges 4 of the sheet metal are rolled, as shown in Fig. 4 and the two edges are caught in the slot 5 in the tube 6. The means for rotating the tube 6 in-

clude a yoke 3 which is secured to the pole by nails or screws or other devices. A rotor 7 operates in the eye 8 of the yoke and the rotor has an inwardly projecting rib 9 which projects into the slot 5 of the tube 6, the object being to turn the tube 6 for wrapping the sheet metal closely about the post or pole. Any suitable crank or other instrument may be inserted in the opening 10 for turning the rotor 7 and the rotor will turn the tube or sleeve 6 and the tube will draw the sheet metal by reason of the rolled edges 4 which will not slip out of the slot 5. The sheet metal 2 will be drawn closely about the pole, as shown in Figs. 4 and 5 except at one part and the object is to leave a pocket 11 for receiving any preserving material. The sheet metal 2 and the rotor 7 form a housing for a portion of the pole for holding a preserving fluid to be soaked or taken up by the pole and also to form a brace and also to protect the poles against fires which frequently occur in the grass and burn the poles unless the poles are protected. A hood 12 is mounted on the protecting devices to protect these devices. The yoke 3 has a flange 13 and the hood 12 has a flange 14 which projects up under the flange 13 to keep out moisture. A portion of the jacket 2 which extends below the surface of the ground is covered with a sheet of paper or fabric 15 which is soaked or filled with a preserving composition, as pine tar, to protect the metal from attacks of elements of the earth, such as alkali. This sheet 15 may be wrapped about the jacket with the tube or sleeve 2. When the sheet metal 2 has been wrapped sufficiently taut about the pole, it may be locked stationary thereon. The exterior of the rotor is fluted as shown and the eye 8 of the yoke 3 has two key seats 16 and a key 17 may be inserted in one of the seats to lock the rotor 7 against movement. Any one of the flute creases or corrugations of the rotor 7 that is adjacent to one of the seats 16 will receive the key 17 so that the rotor will be securely locked against rotation. Any suitable fluid or compound may be placed in the pocket 11 and packed therein for preserving the pole. Such preserving fluid or material will be taken into the pores or cells of the pole and thus keep out moisture. The pocket 11 may be repeatedly filled as the pole takes the material in the pocket. The lower end of the

pocket 11 may be suitably closed to retain the preserving material to be taken up by the pole.

Such poles as electric light, telephone, 5 telegraph, and the like often decay about the lower part just above and below the surface of the ground and the decayed portions are sloughed off, making somewhat peripheral grooves. The housing herein provided and the pocket 11 will retain preserv- 10 ing fluid which will fill such grooves and be taken up into the pores and cells of the wood and which will stop the decay of the poles.

The yoke 3 serves as a guide when the sheet 15 metal is being wrapped about the pole and of course prevents any slipping of the metal because the pipe 6 which operates the metal is turning in the eye 8, the rib 9 locking the pipe 6 and the rotor 7 in operative relation. 20 Various changes in the sizes, proportions, construction, and arrangement can be made without departing from my invention. The bent portions 4 of the edges of the sheet metal may be of any suitable shape, the ob- 25 ject being to prevent the edges from slipping out of the slot 5 while the sheet metal is being wrapped on the pole. The rotor and the sleeve 6 may be used for tightening various devices, such as hooks on tanks.

30 What I claim, is,—

1. A preserving apparatus for poles and the like comprising a piece of sheet metal, and means for wrapping the same on the pole including a rotor, said sheet metal and 35 rotor forming a pocket to receive preserving material against the pole.

2. A preserving apparatus for poles and the like comprising a piece of sheet metal, means for wrapping the same on a portion 40 of the pole including a rotor, said sheet metal and rotor forming a pocket to receive preserving material against the pole, and means for locking the wrapping means in place on the pole.

3. Apparatus for preserving and protect- 45 ing poles and the like comprising a piece of sheet metal having rolled edges, a tube having a slot to receive the rolled edges of said sheet metal, a yoke attached to the pole, and 50 a rotor operatively connected to said tube and coöperating with said yoke for turning said tube.

4. Apparatus for preserving and protect- ing poles and the like comprising a piece of 55 sheet metal having rolled edges, a tube having a slot therein to receive the edges of said

sheet metal with the rolled portions inside of said tube, a yoke attached to said pole, and a rotor mounted in said yoke and opera- 60 tively connected to said tube for rotating said tube.

5. Apparatus for preserving and protect- ing poles and the like comprising a piece of sheet metal having rolled edges, a tube hav- 65 ing a slot therein to receive the edges of said metal with the rolled portions inside of the tube, a yoke attached to the pole and having an eye, a rotor mounted in said eye and re- 70 ceiving the end of said tube and having a rib projecting in said slot for turning said tube, and means for locking said rotor rigidly with said yoke.

6. Apparatus for preserving and protect- ing poles and the like comprising a piece of sheet metal having rolled edges, a tube 75 having a slot therein to receive the edges of said sheet metal for wrapping the same on the pole, a yoke attached to the pole and having an eye and key seats in said eye, a rotor having a fluted periphery mounted in 80 said eye and having a cavity to receive the end of said tube and having a rib projecting in said slot, and key for locking said rotor rigidly with said yoke, said rotor having an opening for an operating tool. 85

7. Apparatus for preserving and protect- ing poles and the like comprising a piece of sheet metal, means for wrapping said sheet metal about the pole including a rotor and a pipe, said rotor and said sheet metal form- 90 ing a pocket next to the pole for a preserving material, means for locking the wrapping means and said sheet metal on the pole, and a sheet of preserving material wrapped on a portion of said sheet metal. 95

8. Apparatus for preserving and protect- ing poles and the like comprising a piece of sheet metal having vertically disposed edges, a tube having a slot therein to receive said edges for wrapping said metal about the 100 pole and for forming a pocket for preserv- ing material, a yoke attached to the pole and having an opening therein, a rotor mounted in said yoke and operatively engaging said tube for turning the same, means for lock- 105 ing said rotor and said yoke rigidly together, and a hood for including said rotor and the upper end of said tube and covering the upper end of said pocket.

In testimony whereof, I set my hand, this 110 21st day of June, A. D. 1919.

THOMAS E. LEWIS.