Feb. 16, 1926. 1,573,539

F. A. BROWN

PIKE POLE GAD

Filed June 7, 1924

Fig. 1.

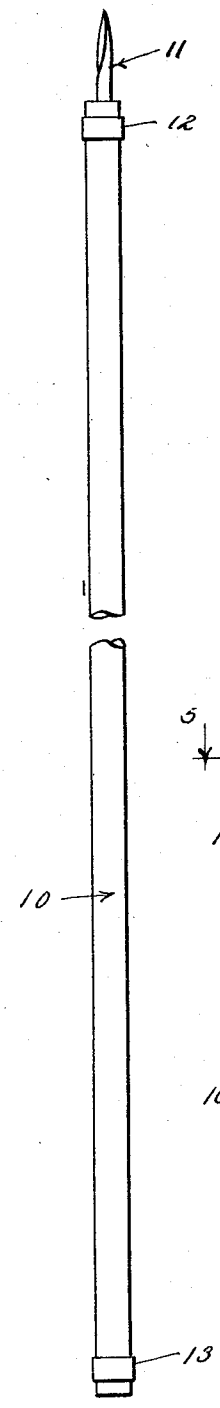


Fig. 2.

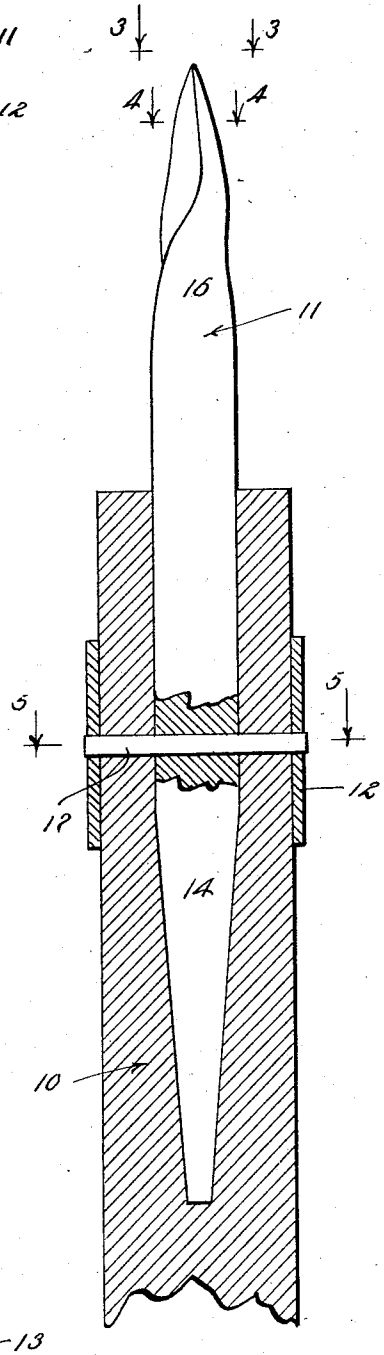


Fig. 3

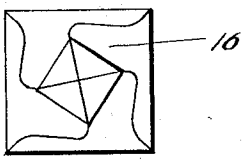
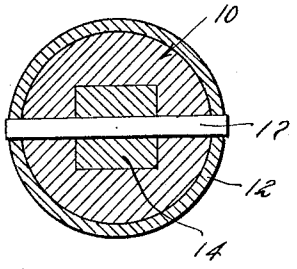


Fig. 4.



Fig. 5.



Inventor
Fred A. Brown
by Wm. H. Maxwell
his Attorney

Patented Feb. 16, 1926. 1,573,539

UNITED STATES PATENT OFFICE.

FRED A. BROWN, OF LOS ANGELES, CALIFORNIA.

PIKE-POLE GAD.

Application filed June 7, 1924. Serial No. 718,500.

To all whom it may concern:

Be it known that I, FRED A. BROWN, a citizen of the United States, and a resident of the city of Los Angeles, county of Los Angeles, and State of California, have invented new and useful Improvements in Pike-Pole Gads, of which the following is a specification.

This invention has to do with a pike pole, and has particular reference to a pike pole gad.

Devices known as pike poles are used in setting up poles such as telephone, telegraph or power line poles. The ordinary pike pole is usually in the form of a long straight wooden pole provided at its outer end with a sharp metal gad. The gad is usually a straight pointed metal spike. The usual form of gad splinters the pole into which it is set and often times becomes released from the pole accidently.

It is an object of this invention to provide a gad for a pike pole which can be thrust into and withdrawn from a wooden pole such as a telephone, telegraph or power line pole, without splintering it.

Another object of this invention is to provide a pike pole gad which when thrust into a wooden pole will not, under ordinary circumstances, become released therefrom unless deliberately operated.

Another object of this invention is to provide a simple reliable gad having the characteristics above mentioned, and which is extremely simple and inexpensive to manufacture.

The various objects and features of my present invention will be best and more fully understood from the following detailed description of a typical preferred form of the invention through which description reference is had to the accompanying drawings in which—

Fig. 1 is a view showing a typical pike pole provided with a gad embodying the present invention.

Fig. 2 is an enlarged detailed sectional view of the outer end portion of the pole showing in detail the formation of the gad, and its manner of attachment to the wooden portion of the pike pole.

Fig. 3 is an enlarged end elevation of my improved gad being a view taken as indicated by line 3—3 on Fig. 2.

Fig. 4 is an enlarged detailed sectional view taken as indicated by line 4—4 on Fig. 2.

Fig. 5 is a detailed sectional view taken as indicated by line 5—5 on Fig. 2.

The pike pole illustrated in the drawings is, in general, of the usual form and construction and comprises, generally, a long wooden pole 10, a gad 11 carried at the outer end of the pole 10, a metal ferrule 12 on the outer end portion of the pole 10, and a metal ferrule 13 on the inner end portion of the pole 10. The pole 10 is, in practice, a comparatively long round pole made as light as possible consistent with strength and reliability.

The gad 11 provided by my present invention is in the form of an elongate metal spike having its inner end portion 14 carried in the outer end of the wooden pole 10, and its outer end portion 16 projecting from the end of the pole 10. The inner end portion 14 of the gad may be driven into or otherwise applied to the outer end of the pole 10, and may be retained in the end of the pole in any suitable manner; for instance, by a pin 17, which extends through the ferrule 12, pole 10 and inner end portion of the gad 14, as clearly illustrated in Figs. 2 and 5 of the drawings.

In accordance with this invention the outer or projecting end portion 16 of the gad 11 is shaped or fashioned so that it cannot, when imbedded in wood, or the like, be withdrawn straight but requires operation or manipulation such as twisting. In the preferred form of the invention I make the portion 16 of the gad more or less screw shaped or helical. In practice I make the end portion 16 of the gad square in cross sectional configuration and twist it into a shape such as is illustrated throughout the drawings. The cross sectional configuration of the end part 16 and the amount of pitch or twist given to said part may be varied to suit various conditions or requirements. The end portion 16 is, of course, tapered off and pointed, as I have illustrated in the drawings. In the preferred form of the invention the twist on or in the outer part of the gad is left-handed.

In using the pike pole provided by this invention the operator grips the pole 10, as in the case of an ordinary pike pole, and thrusts the gad into the pole to be handled or set up. An operator will naturally grip

and manipulate the pole 10 so that he twists it somewhat in a left-hand direction when thrusting the gad into a pole. The twist thus naturally given to the pole 10 by the operator, and the shape of the outer part 16 of the gad, causes the gad to twist or screw itself into the pole without splintering it. The gad when once thrusted into a pole will remain therein during normal operations and will not readily release the pole.

To withdraw or release the gad from the pole, the operator pulls on the pole 10 and at the same time twists it in a right hand direction causing the gad 11 to unscrew from the pole.

The device of the present invention, although extremely simple in construction, has been found, in practice, to be particularly effective and reliable in operation, and has been found to be much safer in operation than an ordinary device of this character.

Having described only a typical preferred form of my invention I do not wish to limit myself to the specific details hereinabove set forth but wish to reserve to myself any changes or variations that may appear to those skilled in the art or fall within the scope of the following claim.

Having described my invention, I claim:

A pike pole, and a gad fixed on the end of the pole, the gad being polygonal in cross-sectional configuration and having a tapered end portion in the form of a left-handed helix.

In witness that I claim the foregoing I have hereunto subscribed my name this 5th day of May 1924.

FRED A. BROWN.