A. FISCHER.

TIP FOR WAGON POLES.

APPLICATION FILED JAN. 18, 1909.

944,184. Patented Dec. 21, 1909.

Fig. 1.

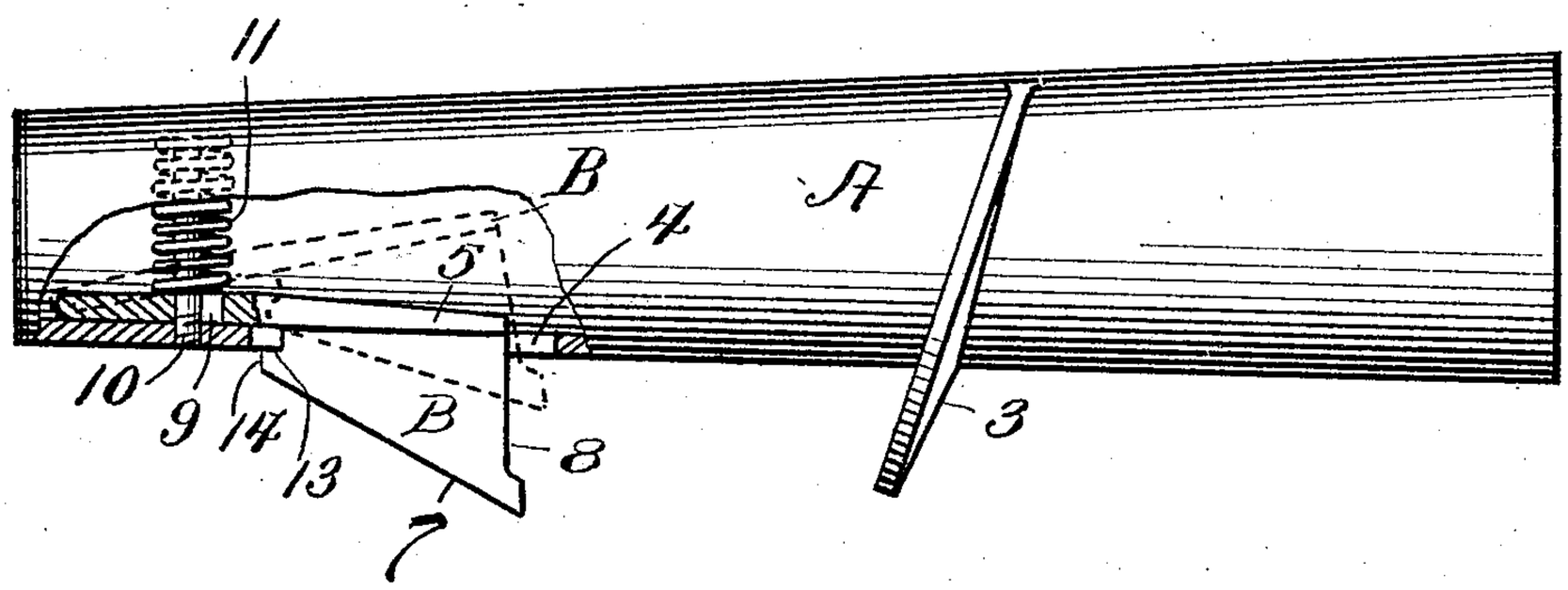


Fig. 2.

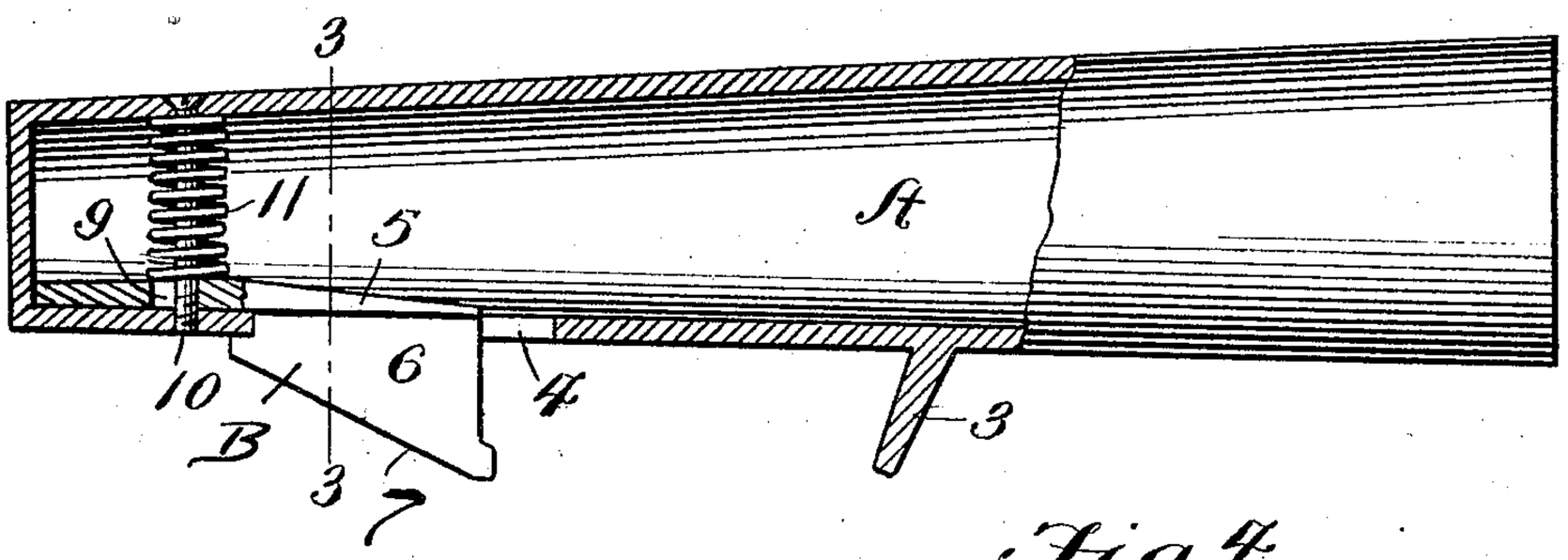


Fig. 3.

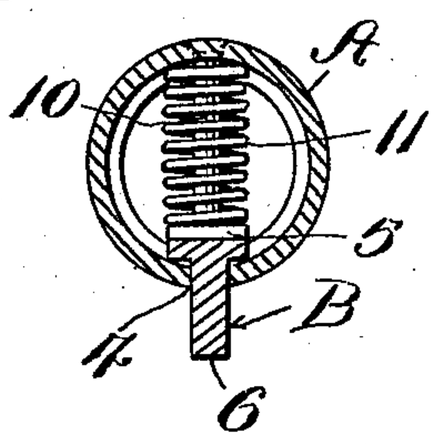
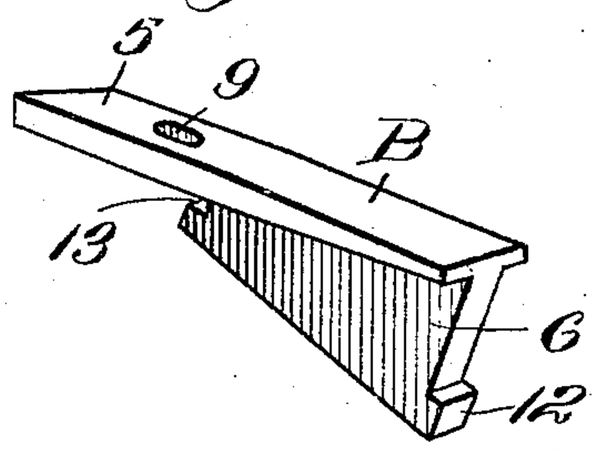


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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TIP FOR WAGON-POLES.

944,184. Specification of Letters Patent. Patented Dec. 21, 1909.

Application filed January 18, 1909. Serial No. 472,866.

To all whom it may concern:

Be it known that I, ADOLF FISCHER, a citizen of the United States, residing at Chokio, in the county of Stevens and State of Minnesota, have invented new and useful Improvements in Tips for Wagon-Poles, of which the following is a specification.

This invention relates to tips for wagon poles and relates more particularly to improvements whereby the neck yoke ring is effectively retained in place on the pole.

The invention has for one of its objects to improve and simplify the construction and operation of devices of this character so as to be comparatively simple and inexpensive to manufacture, reliable and efficient in use, and of durable and substantial design.

Another object of the invention is the provision of a spring-pressed keeper of improved construction which is arranged to yield inwardly with respect to the tip as the neck yoke ring is applied to the pole and to spring back in front of the ring to thereby retain the latter in place.

A further object is to provide locking means whereby the keeper or retainer will be held in projected position so that it is impossible to disengage the yoke ring from the pole except by first unlocking the keeper.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention, Figure 1 is a side elevation of the pole tip with a portion broken away. Fig. 2 is a central longitudinal section of the tip. Fig. 3 is a transverse section on line 3—3, Fig. 2. Fig. 4 is a perspective view of the retainer or keeper.

Similar reference characters are employed to designate corresponding parts throughout the views.

Referring to the drawing, A designates the tip for a pole or tongue of a vehicle, the same being preferably a metal casting of gradually tapering form to fit on the front extremity of the pole and adapted to be retained in position by suitable fastening means. On the tip is formed the usual flange 3 that constitutes an abutment against which the ring of the neck yoke is adapted to bear. In the bottom of the tip adjacent the front thereof is a longitudinally-extending slot 4 in which is disposed the retainer B for the neck yoke ring. This retainer comprises a plate 5 that is disposed within the tip, and projecting from the bottom side of the plate is a tongue or web 6 that is movably disposed in the slot 4. The under surface 7 of the tongue is inclined upwardly and forwardly so that when the tongue is engaged by the neck yoke ring, the retainer will be pressed inwardly by the wedge action for permitting the ring to pass behind the retainer into coöperative relation with the flange 3. The rear end 8 of the tongue is approximately perpendicular to form a front abutment which prevents the ring of the neck yoke from slipping forwardly off the tip of the pole. The plate 5 of the retainer projects forwardly from the tongue 6 and has an elongated opening 9 for receiving a fastening screw or bolt 10 which passes vertically through the tip A. Arranged on this screw 10 is a helical compression spring 11 which has its lower end bearing against the plate 5 of the retainer B and its upper end bearing against the top of the tip, whereby the retainer will be yieldingly held in projected position. When the neck yoke ring is applied to the pole tip, the retainer will automatically yield inwardly to the dotted line position, Fig. 1, and as soon as the ring passes behind the retainer, the latter will spring outwardly to the full line position. At the rear lower corner of the tongue 6 is a rearwardly-projecting lug 12 which is adapted to prevent the tongue from being forced completely into the tip and becoming displaced. The retainer is provided with means for enabling the same to be locked in projected position. For this purpose, the front of the tongue is formed with a recess 13 whereby a projection 14 is provided that is adapted to engage under the tip A at the forward end of the slot 4 by moving the retainer bodily in a forward direction so as to occupy the position shown in Fig. 2. This retainer can be locked voluntarily on the part of the driver or attendant or it will be automatically locked by the neck yoke ring in working forwardly on the tip.

From the foregoing description, taken in connection with the accompanying drawing,

the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention, what I claim is:—

1. In combination with a pole tip having a longitudinal slot in a side thereof, a retainer arranged to operate through said slot and provided at its forward end with spaced projections to embrace opposite sides of the portion of the tip adjacent the forward end of the slot thereof, a fastening passed through an opening formed in the inner projection and a spring normally holding the retainer projected, the latter being secured or released by a longitudinal movement.

2. In combination, a pole tip having a longitudinal slot in a side thereof, a retainer through said longitudinal slot and provided at its forward end with an inner and an outer forwardly extending projection to embrace opposite sides of the part of the tip adjacent the forward end of the longitudinal slot, the inner projection having a longitudinally elongated opening, and a fastening supported in opposite sides of the tip and passed through the elongated opening of said inner projection, and a spring mounted upon said fastening and normally holding the retainer projected.

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

ADOLF FISCHER.

Witnesses:
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