

(No Model.)

H. P. RICHARDS.
VEHICLE POLE TIP.

No. 461,163.

Patented Oct. 13, 1891.

Fig. 1.

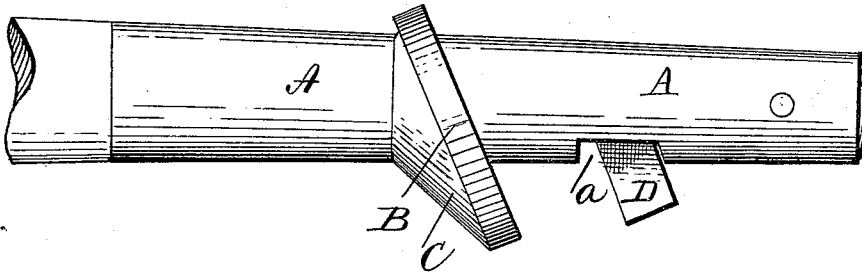


Fig. 2.

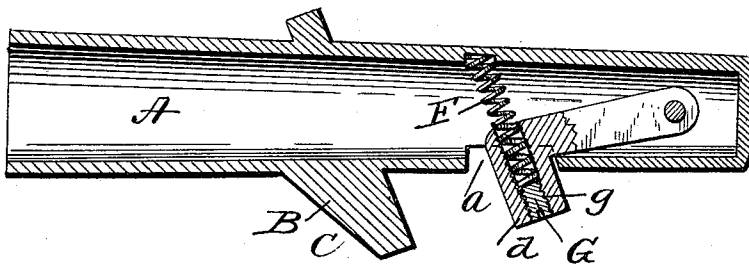
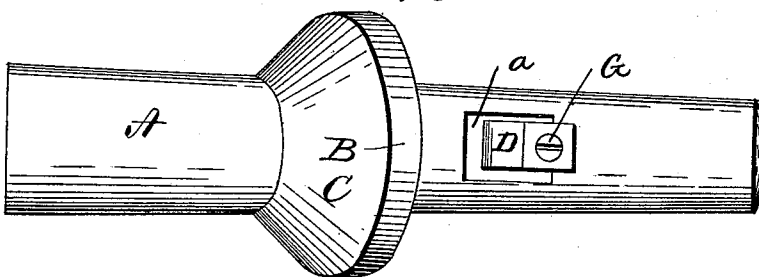


Fig. 3.



WITNESSES

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HORACE PETER RICHARDS, OF WEST PITTSTON, PENNSYLVANIA.

VEHICLE-POLE TIP.

SPECIFICATION forming part of Letters Patent No. 461,163, dated October 13, 1891.

Application filed February 5, 1891. Serial No. 380,364. (No model.)

To all whom it may concern:

Be it known that I, HORACE PETER RICHARDS, a citizen of the United States, residing at West Pittston, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Pole-Tips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to that class of inventions which are designated as "pole-tips," and has for its object, in common with such devices, to prevent the neck-yoke from slipping off the pole.

A further object of the invention is the provision of a pole-tip which can be cheaply constructed and which will be simple, efficient, and durable.

The improvement consists of a thimble, sheath, or tube constructed with a flange, which is arranged obliquely thereto and strengthened by an annular flaring brace, a latch pivoted within the thimble midway between the top and the bottom sides thereof and having its rear end terminating in or provided with a head which is projected through an opening in the bottom side of the thimble, and a spring to press down on the latch, the spring being inserted to place through an opening in the head of the latch, which opening is closed by a screw-plug which is adjustable to vary the tension of the spring and which can be removed to permit access to the said spring, all as hereinafter will be more fully described and claimed, and shown in the annexed drawings, in which—

Figure 1 is a side view of a pole-tip embodying my invention. Fig. 2 is a vertical longitudinal section of the invention. Fig. 3 is a bottom plan view of the device.

The thimble or sheath A is slightly tapering in form and is adapted to be secured on

the end of the pole in the usual manner, and is provided between its ends with the eccentric and oblique flange B, which is strengthened by the flaring annular brace C. The latch D is pivoted near the front end of the thimble or sheath midway between the top and the bottom sides thereof, and its rear end is provided with the head *d*, which projects through the opening *a* in the bottom side of the thimble. The spring F, which bears on the latch and holds the head *d* thereof projected through the opening *a*, is a coil and is inserted to place in the sheath or thimble through the internally-threaded opening *g*, which extends through the head *d*. The screw-plug G closes the opening *g* and forms a support for the spring F. Obviously by adjusting the screw-plug the tension on the spring F can be increased or diminished, and by removing the said plug the spring F can be withdrawn from the opening *g* for repairs or to be replaced by a new spring. The lower end of the spring F, being fitted in the opening *g*, is retained in place thereby.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In a pole-tip, the combination, with the sheath or thimble having opening *a* and the latch pivoted within the sheath and having a head *d*, which extends through the opening *a*, and having threaded opening *g*, of the coil-spring F, inserted through the opening *g* in the head *d*, and the screw-plug G to close the opening *g* and form a support for one end of the spring F and serve as a means to regulate the tension of the said spring, substantially as set forth.

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

HORACE PETER RICHARDS.

Witnesses:

JOS. W. KASPER,
EDWIN FELTS.