

(No Model.)

J. O. HEBERT.
POLE TIP.

No. 460,578.

Patented Oct. 6, 1891.

Fig. 1.

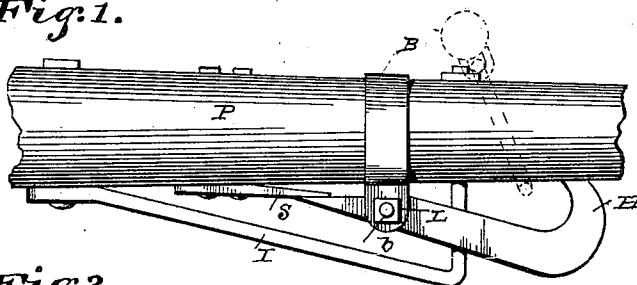


Fig. 2.

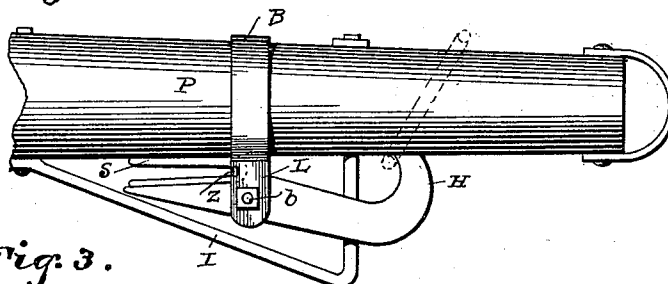


Fig. 3.

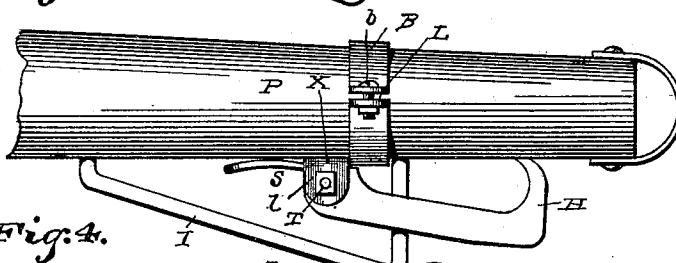
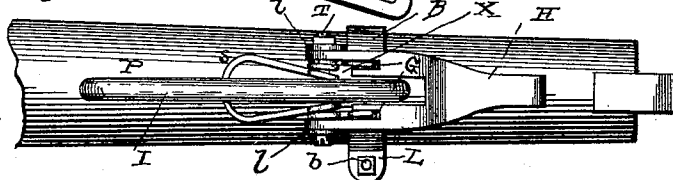


Fig. 4.



Witnesses

G. S. Clark

Inventor

Joseph O. Hebert.

By his Attorneys,

N. L. Hollander,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JOSEPH O. HEBERT, OF GRAND RAPIDS, WISCONSIN.

POLE-TIP.

SPECIFICATION forming part of Letters Patent No. 460,578, dated October 6, 1891

Application filed February 20, 1891. Serial No. 382,247. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH O. HEBERT, a citizen of the United States, residing at Grand Rapids, in the county of Wood and State of Wisconsin, have invented a new and useful Pole-Tip, of which the following is a specification.

This invention relates to carriages and wagons, and more especially to the pole-tips thereof; and the object of the same is to effect certain improvements in devices of this character.

To this end the invention consists in the details of construction hereinafter more fully described and claimed, and as illustrated on the sheet of drawings, wherein—

Figures 1 and 2 are side elevations of different forms of my invention. Fig. 3 is a similar view of the preferred form. Fig. 4 is a bottom plan view of Fig. 3.

Referring to said drawings, the letter P designates the pole, and I the holdback-iron, which is preferably of about the construction shown. H is a hook, whose body straddles the vertical front member of said holdback-iron and whose tip normally bears against the bottom of the pole, whereby the ring of the neck-yoke is prevented from displacement, as seen in dotted lines in Fig. 1, and as must be understood in all the figures. S is a spring, which normally holds the hook in the position shown. These parts are arranged in several ways, three of which are illustrated.

A band B encircles the pole and has lips L slightly separated and which are connected by a bolt b, whereby the band is held removably on the pole and may be tightened when it comes loose. In Figs. 1 and 2 these lips L stand below the pole, and between them the hook is pivoted, as at b, between its ends.

In Fig. 1 the spring S is a leaf-spring bolted at its rear end to the pole and its free front end bearing downwardly upon the rear end of the hook, and in Fig. 2 the spring S is of V shape, the normal expansion thereof pressing the rear end of the hook away from the pole; but in this case a small bolt or pin Z passes through the lips L and through the angle of the spring to keep the latter from displacement.

In Figs. 3 and 4 the lips L of the band B stand at the side of the pole, and beneath the

pole the band B has a rearward extension X with downturned lips l, a transverse bolt T passing through these lips and through eyes in the rear ends of the hook. The spring S in this case is a single piece of wire bent at its center, this portion thereof resting against the bottom of the pole in rear of the extension and each arm thereof extending forwardly, making several complete turns around the bolt and having its extremity seated in a small groove G in the bottom of the hook, as best seen in Fig. 4.

When the ring of the neck-yoke is passed over the tip of the pole, the hook is grasped by the operator and borne downwardly, (or the end of the hook may be beveled, as best seen in Fig. 1, so that the ring will pass automatically between the pole and hook, by itself depressing the latter,) and when the pressure is released the spring S normally returns the hook to its proper position with its point resting against the pole. Said ring then bears normally against the vertical portion of the holdback-iron I; but if it is drawn forwardly, as shown in dotted lines in Fig. 3, the hook will prevent its slipping off the pole—an accident so often attended with fatal and disastrous results.

This device can be easily and cheaply manufactured and may be applied to the ordinary pole-tip now in use.

I do not confine myself to the exact details of construction, as various changes may be made therein without departing from the spirit of my invention.

What is claimed as new is—

1. The combination, with the pole and the holdback-iron having a vertical front portion and connected to said pole, of a band surrounding the pole in rear of said vertical portion and having lips at its ends slightly separated, a tightening-bolt connecting said lips, a hook pivotally connected to the band, with its body straddling said vertical portion, and a spring holding the tip of hook normally in contact with the bottom of the pole in front of the vertical portion, substantially as described.

2. The combination, with the pole and the holdback-iron having a vertical front portion and connected to said pole, of a band surrounding the pole in rear of said vertical por-

tion, a bolt carried by said band beneath the pole, a hook pivotally mounted on said bolt, with its body straddling said vertical portion, and a spring pressing against the bottom of the pole, connected to a bolt carried by the band, and normally raising the front end of the hook, so that its tip shall stand in contact with the bottom of the pole in front of said vertical portion, substantially as described.

3. The combination, with the pole and the holdback-iron having a vertical front portion and connected to said pole, of a band surrounding the pole in rear of said vertical portion and having a rearward extension beneath the pole provided with downturned lips, a bolt between said lips, a hook whose tip normally bears against the bottom of the pole,

whose body is bifurcated and straddles said vertical portion, and whose rear ends are pivotally mounted upon said bolt, the arms forward of said ends having small grooves, and a wire spring bent at its center which bears against the pole in rear of said extension, and each arm extending thence forwardly, making several turns around the bolt, and having each extremity seated in one of said grooves, substantially as hereinbefore described.

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

JOSEPH O. HEBERT.

Witnesses:

B. M. VAUGHAN,
A. L. FONTAINE.