

(No Model.)

A. L. KOTZE.
VEHICLE POLE TIP.

No. 465,792.

Patented Dec. 22, 1891.

Fig. 1

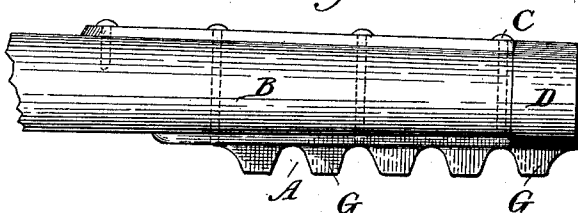


Fig. 3.

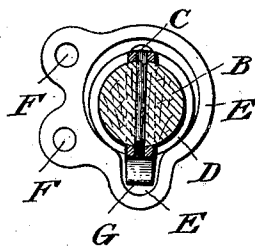


Fig. 4.

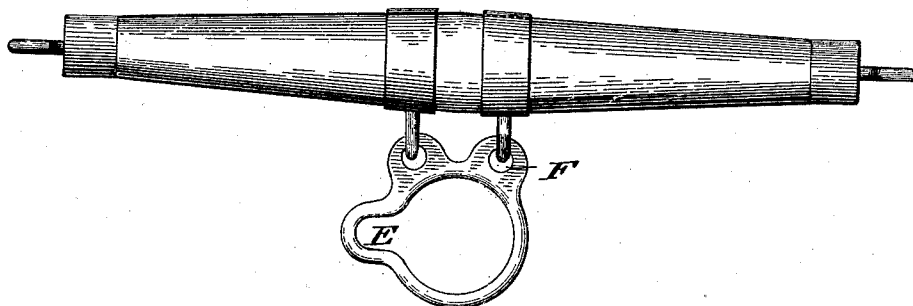
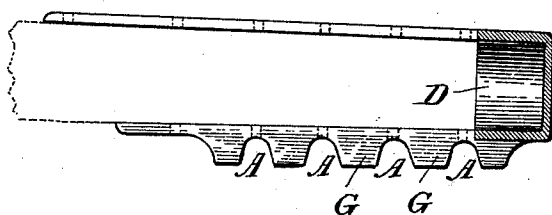


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

ALPHONSE L. KOTZE, OF TALLAHASSEE, FLORIDA.

VEHICLE-POLE TIP.

SPECIFICATION forming part of Letters Patent No. 465,792, dated December 22, 1891.

Application filed July 3, 1891. Serial No. 398,437. (No model.)

To all whom it may concern:

Be it known that I, ALPHONSE L. KOTZE, a citizen of the United States, residing at Tallahassee, in the county of Leon and State of Florida, have invented certain new and useful Improvements in Combined Neck-Yoke, Center Rings, and Tongue-Tips, of which the following is a specification.

My invention relates to improvements in neck-yoke attachments and tongue-tips of the character illustrated in my patent, No. 443,142, issued December 23, 1890, for use on buggies, wagons, and other vehicles; and the object of the present invention is to provide an improved device of the character referred to, whereby greater safety in travel is insured and the usual dangers thereof diminished, while the neck-yoke is prevented from slipping off the tongue in use, and the tongue is capable of being readily lengthened or shortened to adapt the same to the team and harness. These several objects are attained by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents an elevation of the outer end of a tongue with my improved tongue-tip attached. Fig. 2 is a side view of the tongue-tip detached. Fig. 3 is a sectional view of the outer end of a tongue, showing the center ring in position to be slipped on. Fig. 4 is an elevation of the neck-yoke and center ring attached thereto.

Like letters of reference are used to designate like parts in each of the several views.

In my aforesaid patent I have shown a tongue-tip constructed of a single piece of metal provided on its lower side with a stop or lug and a single notch or recess to receive and retain the center ring of the neck-yoke, so as to prevent the latter from slipping off the tongue while in use.

The center ring in my present application may be of any desired construction; but is preferably of the form shown herein and also illustrated in the drawings of my aforesaid patent. In order that all the advantages of my aforesaid patented improvements may be retained, together with the additional advantage of permitting the tongue to be lengthened and shortened to adapt the same to different-sized animals and harness, I propose to con-

struct the tongue-tip of a single piece of metal, preferably in the form of strap iron or steel, which may be forged or swaged into the desired shape and formed integral with a series of lugs depending from the lower side thereof, so as to form notches or recesses to receive an adjustable neck-yoke ring.

In the drawings the tip is shown as consisting of a single piece or a strap of iron bent in the shape of the letter V and having on the lower side thereof a series of notches or recesses A A, which are formed by providing the tip with a series of depending lugs or projections G G, and the tip may be secured to the end of the tongue B by means of rivets C C or in any suitable manner. The pole-tip is constructed with a socket or cap D, which is adapted to fit over the end of the tongue, so as to protect the same and prevent it from splitting.

The center ring (shown in Fig. 4 as attached to the neck-yoke) is indented or crotched at one side thereof, so as to form a recess E to permit the ring to be slipped over the lugs when the neck-yoke is held in an upright position, the recess of the center ring allowing it to slide upon the end of the tongue until the ring is in the proper notch of the pole-tip, in which position it will be retained, when the neck-yoke is returned to a horizontal position, so long as the neck-yoke remains in such position. By this means the tongue may be lengthened or shortened to adapt the same to the team or harness to be used by simply turning the neck-yoke to a vertical position and then sliding it either forward or back in the manner above indicated until the ring rests in the desired notch, in which position it will be secured, as already described. Furthermore, if the tugs or singletree should be broken the team cannot escape from the wagon or other vehicle and would still draw a heavy load with comparative safety and ease.

I am aware that it has heretofore been proposed to provide a pole-tip with a series of notches or lugs, combined with a neck-yoke ring encircling the pole-tip and adapted to engage with the notches or lugs of the pole-tip; and hence I do not desire to claim such a construction broadly.

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

5 A tongue-tip consisting of a single piece or strap of metal formed with a series of lugs depending from the lower side thereof so as to provide a series of notches or recesses to receive an adjustable neck-yoke ring, the end of the tip being provided with a socket to re-

ceive the end of the tongue or pole, in combination with an adjustable neck-yoke ring adapted to engage said notches, so as to lengthen or shorten the tongue, substantially as shown and described.

ALPHONSE L. KOTZE.

Witnesses:

E. G. CHESLEY,
CHAS. A. CHOATE.

It is hereby certified that in Letters Patent No. 465,792, granted December 22, 1891, upon the application of Alphonse L. Kotze, of Tallahassee, Florida, for an improvement in "Vehicle-Pole Tips," an error appears in the printed specification requiring the following correction, viz.: In line 61, page 1, the designating character "V," should be U; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 5th day of January, A. D. 1892.

[SEAL]

CYRUS BUSSEY,
Assistant Secretary of the Interior.

Countersigned:

W. E. SIMONDS,
Commissioner of Patents.