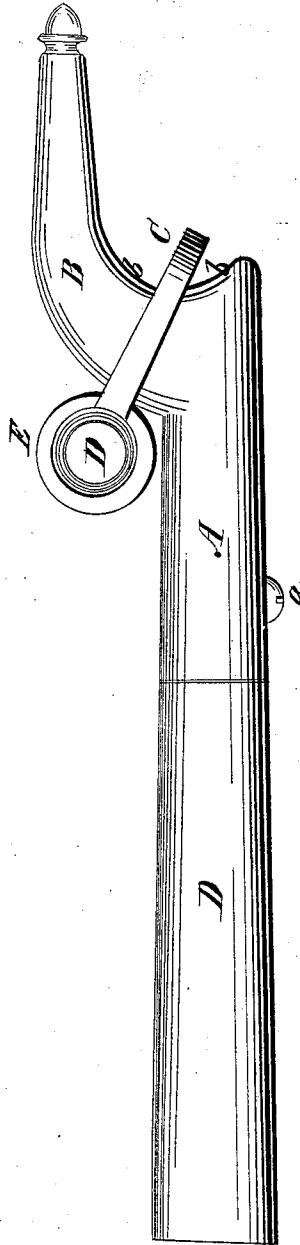


A. BENEDICT.  
Carriage-Pole Tip.

No. 77,796.

Patented May 12, 1868.



Witnesses.  
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Jas A Morgan

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# United States Patent Office.

ALONZO BENEDICT, OF ALBANY, NEW YORK.

*Letters Patent No. 77,796, dated May 12, 1868.*

## IMPROVEMENT IN CARRIAGE-POLE TIP.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, ALONZO BENEDICT, of Albany, in the county of Albany, and State of New York, have invented a new and useful Improvement in Pole-Tips; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which the drawing represents a side view of my invention.

Similar letters of reference indicate like parts.

The object of this invention is to provide a metallic tip for the tongues or poles of carriages, which will not strain the leather of the neck-yoke to so great a degree, nor distort the same to so great an extent as the pole-tips heretofore used, and which will enable a lighter and neater neck-yoke leather to be used.

The invention consists in forming the tip with a socket, A, into which the tapered end of the pole D fits with snug contact, and a curved part, B, which curves abruptly from the socket A, and thereby forms a concave surface, *b b*, against which the leather-eye C of the neck-yoke strap E C impinges, in the act of holding back and in holding up the pole.

By means of this invention the part B may be made much smaller than are the corresponding parts of pole-tips as usually made, for the socket A being of a suitable size to receive the end of the pole, the part B may be made much smaller than the socket, without impairing the efficiency of the tip.

The reduced size of the part B enables a smaller and neater eye to be employed, and as the strain is directly in the plane of the said eye, the undesirable torsion strain which conduces to breaking the stitches of neck-yoke straps, and wearing out the same, is avoided.

The eye can also be made smaller, and located nearer to the neck-yoke D than is permissible with the tips as heretofore made.

The tip is formed of cast metal or malleable iron, and is of small cost. A screw, *a*, may be employed to secure the tip upon the pole.

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

A pole-tip, A B, substantially as and for the purpose described.

The above specification of my invention signed by me, this 23d day of March, 1868.

A. BENEDICT.

Witnesses:

JOS. E. TAYLOR,

JAS. B. GASCOYNE,