

J. B. WOOLSEY.
Hame-Tugs.

No. 218,104.

Patented July 29, 1879.

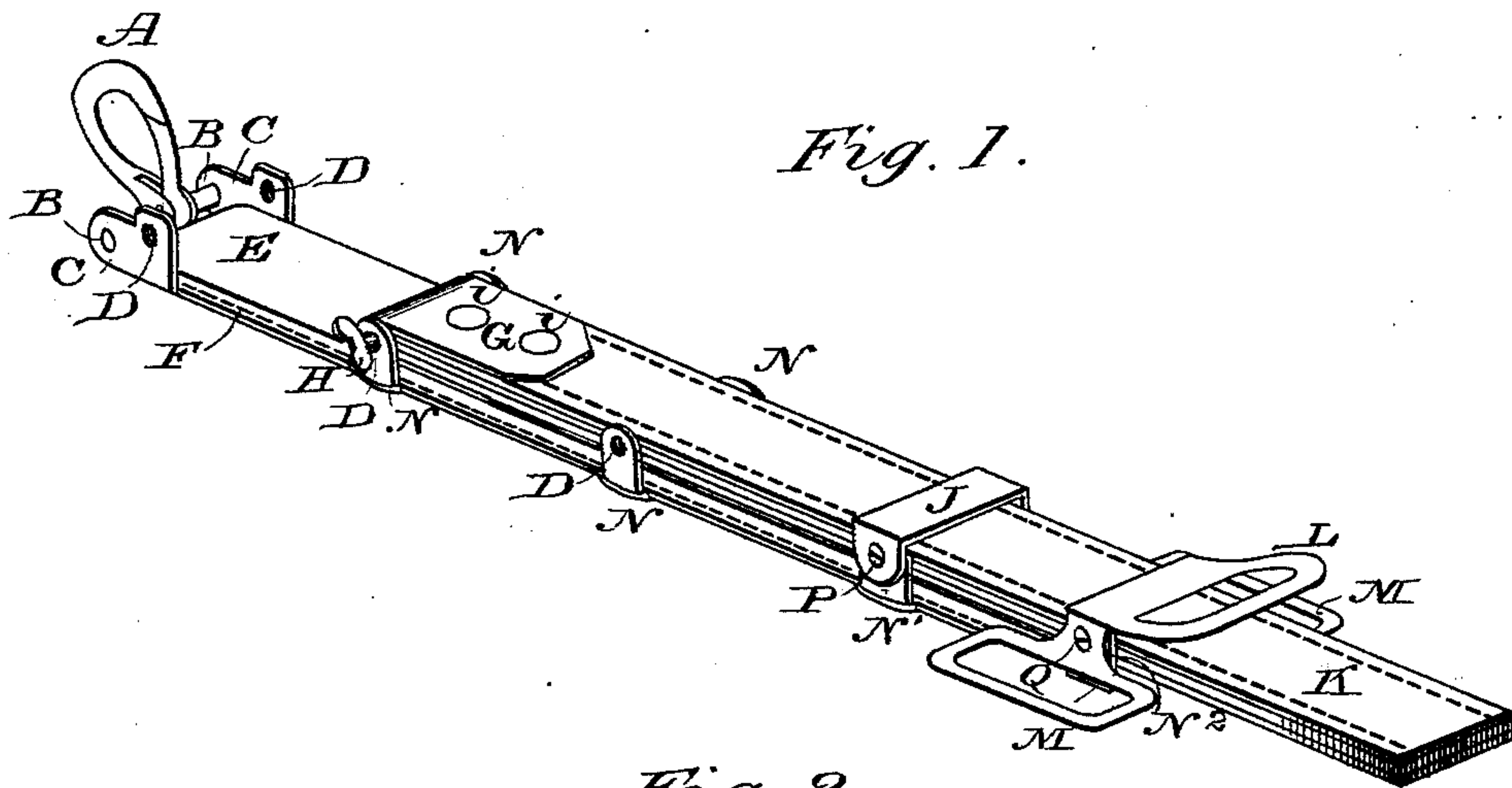


Fig. 2.

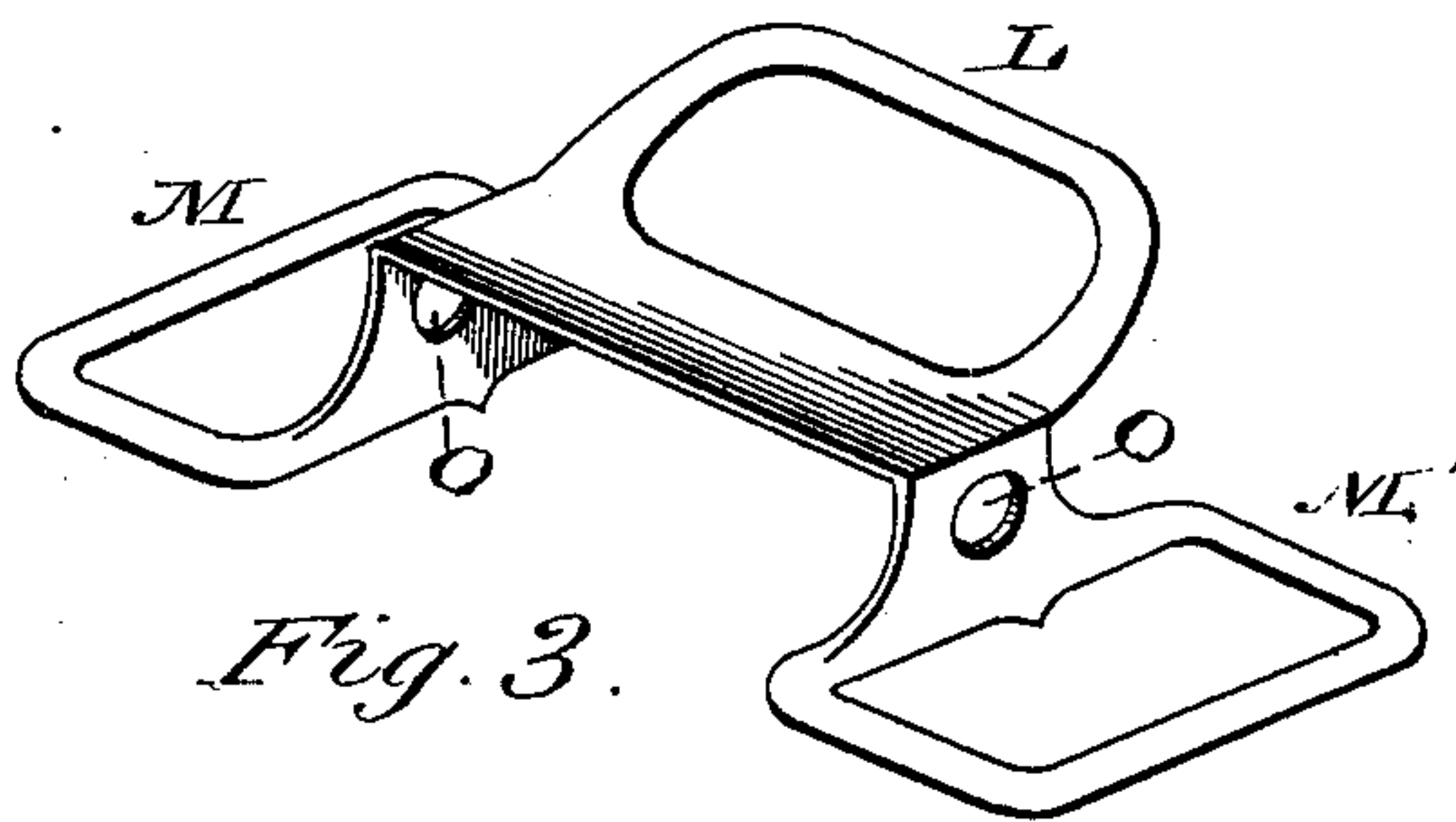
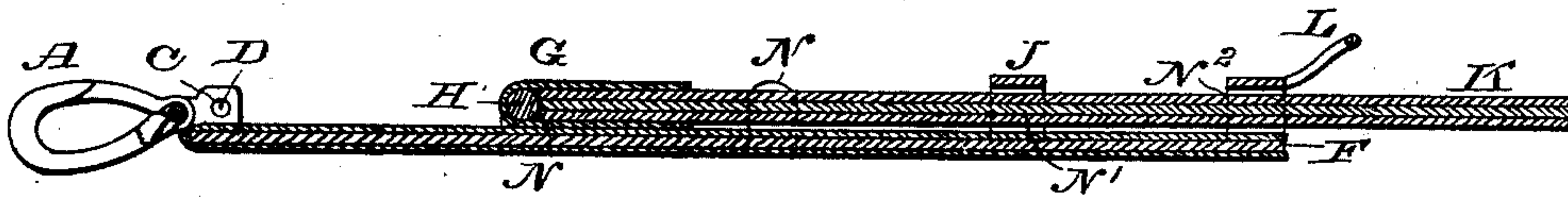


Fig. 3.

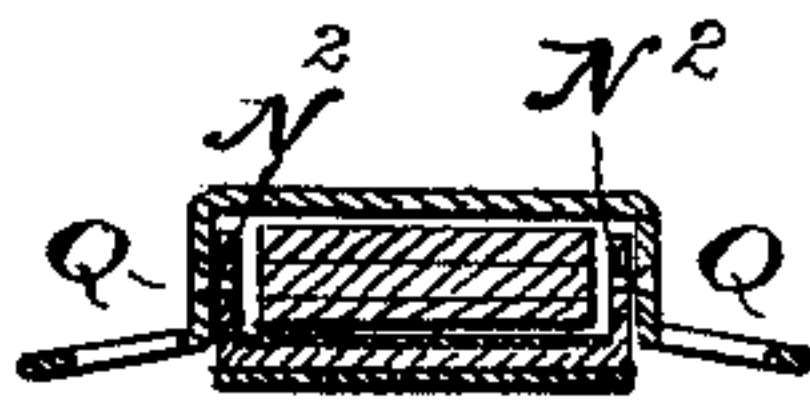


Fig. 4.

Attest:

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UNITED STATES PATENT OFFICE.

JOHN B. WOOLSEY, OF BLOOMFIELD, IOWA, ASSIGNOR OF ONE-HALF HIS
RIGHT TO JAMES M. BROWN, OF SAME PLACE.

IMPROVEMENT IN HAME-TUGS.

Specification forming part of Letters Patent No. **218,104**, dated July 29, 1879; application filed
July 24, 1878.

To all whom it may concern:

Be it known that I, JOHN B. WOOLSEY, of Bloomfield, Iowa, have invented a new and useful Improvement in Hame-Tugs for Harness, of which the following is a specification.

My invention relates to devices for adjustment of the harness-traces with respect to length, which adjustment is effected without the aid of buckles, and by means of the peculiar construction which will be hereinafter more fully set forth, and particularly pointed out in the claim.

In the drawings, Figure 1 is a view of my complete device, showing its application to a harness-trace. Fig. 2 is a longitudinal sectional view of Fig. 1. Fig. 3 is an enlarged view of the triple holder detached, and Fig. 4 is a transverse sectional view taken through the triple holder in Fig. 1.

The main supporting part of the hame-tug is made of metal and covered with leather. Its edge is shown at the dotted lines F, Fig. 1, and in Fig. 2, which shows a longitudinal section of my invention; its edge is also indicated by the same letter. Its thickness may be an eighth of an inch, more or less, and should be in width about the same as the trace. It is covered with leather, and has large lugs C turned up at its end used nearest the collar, and other lugs distributed at intervals toward its other end. These other lugs are shown at N, N¹, and N², and are a part of the metallic piece forming the main supporting part of the hame-tug. The metallic strap G is fastened with the rivets i to the trace K, which strap is attached to the hame-tug by means of the thumb-screw H, working in the female screws D. The swinging hook A has gudgeons working freely in the holes B in the lugs C. The triple-eared holder, Fig. 3, has the holes O, and swings freely on the lugs N² by means of the screw-bolts or rivets Q, only one of which can be seen in Fig. 1; but both are shown in section in Fig. 4, which is a sectional view of the triple holder, trace, hame-tug, and lugs N², all in position with reference to each other.

The lugs are all cast or forged in one piece with the metallic supporting part of the hame-tug, and each one has holes for the reception of screw-bolts. The lugs to which the end of the trace is attached have female screws in these holes, into which is screwed the thumb-screw H, which passes from one hole in the

lug through and across the width of the trace into the hole in the lug opposite, thereby serving the purpose of a buckle in attaching the trace to the hame-tug. By having different pairs of these opposite lugs at intervals of space along the length of the hame-tug, the requisite distance of the horse from his load may be gaged.

The lugs N¹ are made to hold the loop J, and N² to fasten the swinging triple holder. (Shown by Fig. 3.)

The strap G is lapped and riveted around the end of the trace, leaving at its end sufficient space through which to pass the thumb-screw H. By adjusting this space in range between the holes D in the lugs, the thumb-screw is passed entirely through the whole width of the tug and fastens the trace to the tug. As many of these lugs N may be made as desired, for shortening and lengthening the trace.

In the drawings, Fig. 1, the trace is adjusted to the medium length. It may be shortened by taking out the thumb-screw H and slipping the end of the trace K up between the lugs C, and adjusting the hole at the end of the trace to the holes D in the lugs C. On the other hand, it may be lengthened by slipping it in the opposite direction and fastening it in like manner between the third set of lugs. The lugs N¹ are for attaching the metallic loop J thereto by means of screws on each side of the hame-tug, one of which screws is seen at P.

The triple holder has three loops, as follows: L is for the holdback-strap, M for the back-strap, and M' for the belly-band.

I claim as my invention—

A hame-tug composed of the metallic leather-covered plate F, provided at its sides with the lugs C, N, N¹, and N², and having secured at one end, in the lugs C, the swinging hook A, and at the other end, in the lugs N², the oscillating triple holder, all substantially as shown and described, and for the purpose stated.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

J. B. WOOLSEY.

Witnesses:

J. N. ROGERS,
W. P. ROGERS.