

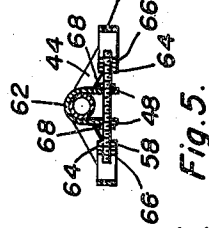
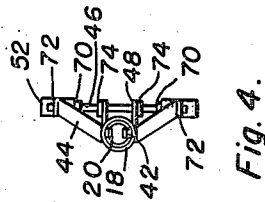
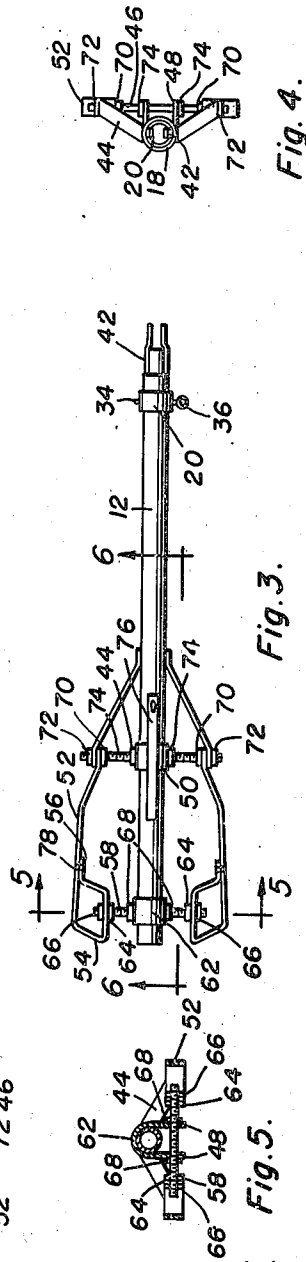
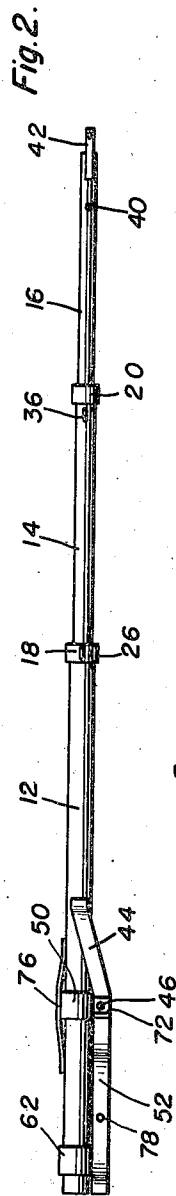
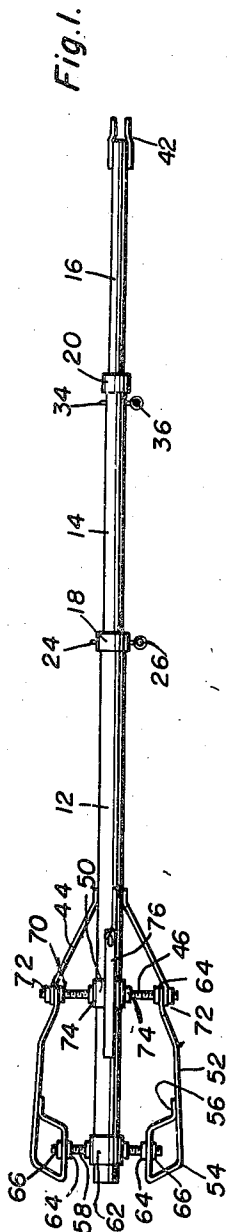
April 19, 1949.

J. R. HANSEN  
WAGON TONGUE

2,467,477

Filed June 9, 1947

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

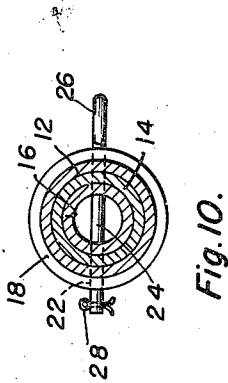


Fig. 10.

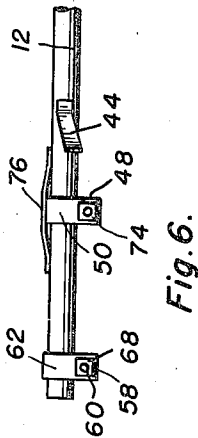


Fig. 6.

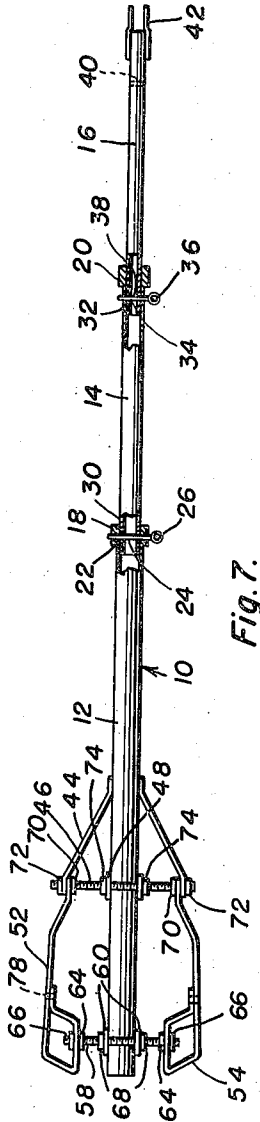


Fig. 7.

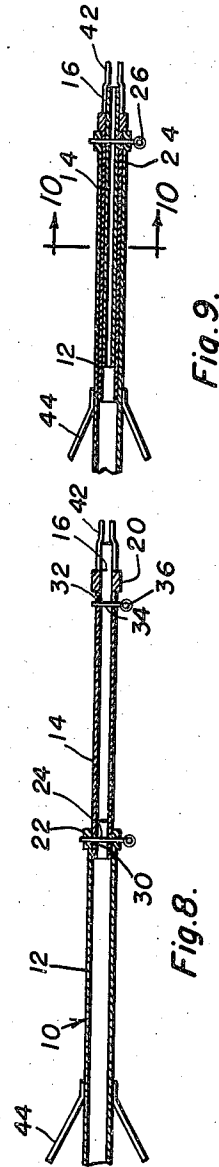


Fig. 9.

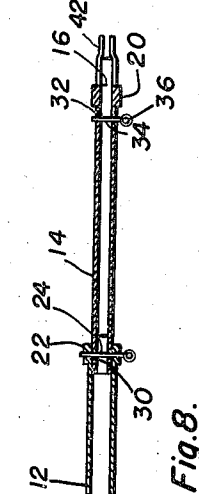


Fig. 8.

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## UNITED STATES PATENT OFFICE

2,467,477

## WAGON TONGUE

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4 Claims. (Cl. 278—43)

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This invention relates to new and useful improvements in wagon tongues and the primary feature of the present invention is to provide a wagon tongue having frame members capable of simple and easy adjustment to accommodate the hound of an ordinary wagon.

Another important feature of the present invention is to provide a wagon tongue composed of telescoped sections which permit the tongue to be reduced to variable lengths facilitating transportation of the device.

A further feature of the present invention is to provide a device of the character referred to including longitudinally and transversely adjustable frame members adapted to be connected to the hound of an ordinary wagon by fastening means that extend beneath the tongue thereby eliminating the necessity of any slot in the tongue to receive the fastening means.

A still further feature of the present invention is to provide a device of the class described which is simple and practical in construction, strong and reliable in use, relatively inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a top plan view of the present invention, with the tongue in an extended position;

Figure 2 is a side elevational view of Figure 1;

Figure 3 is a top plan view of the present invention, the tongue being in closed position;

Figure 4 is an end view of Figure 3;

Figure 5 is a transverse vertical sectional view taken on line 5—5 of Figure 3;

Figure 6 is a longitudinal sectional view taken on line 6—6 of Figure 3;

Figure 7 is a bottom plan view of Figure 1, with parts of the tongue broken away and shown in section;

Figure 8 is a fragmentary top plan view of the device showing the tongue in a slightly extended position with parts broken away and shown in section;

Figure 9 is a fragmentary sectional view of Figure 3, with parts broken away and shown in part; and

Figure 10 is an enlarged sectional view taken on line 10—10 of Figure 9.

Referring now to the drawings in detail, where-

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in for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents generally the pole made up of preferably three sections 12, 14 and 16 of iron tubing.

The several sections, decreasing in diameter, in the order named, so that each succeeding section is telescoped to fit into the preceding section.

The forward ends of sections 12 and 14 are provided with integral collars 18 and 20, with collar 20 bearing against collar 18 when section 14 is fitted into section 12 as shown in Figure 9 of the drawings. A bore 22 extends through collar 18 and receives a pin 24 having a finger gripping eye 26 at one end. The other end of pin 24 receives a cotter pin 28 for locking the pin to the section 12. A bore 30 is also provided in the forward end of section 14 through which pin 24 extends when section 14 is in an extended position.

Slightly rearward from collar 20 is a bore 32 which receives a pin 34 having a finger gripping eye 36 formed at one end, the other end of said pin carries a removable cotter pin (not shown) for holding the pin 34 in position to section 14. The pin 34 is adapted to extend through a bore 38 in the rear end of section 16 when said section 16 is in an extended position relative to section 14, as shown in Figure 7 of the drawings.

It is obvious that section 14 may be extended into section 12 and locked therein by merely inserting pin 24 through bore 22 and bore 32, and also bore 38 whereby the pole remains extended by sections 12 and 14.

To completely lock both sections 14 and 16 in section 12 the pin 24 is replaced to extend through bores 22, 32 and also through a bore 40 in the forward end of section 16.

Suitably secured to the rear end of section 16 is a pair of outwardly projecting parallel spaced arms 42 which are in a usual manner connected to the draw-bar of a tractor or the like (not shown).

Mounted on section 12 at one end and on opposite sides of said section are arms 44 having their outer ends connected by a screw-threaded rod 46 which is carried by the outturned ends 48 of a split bracket 50, adjustable on said pole.

Also connected to rod 46 are the inner ends of frame members 52 having their forward portions bent in the form of parallelograms 54 with the ends 56 of said parallelograms bearing against the frame members.

The inner sides of the parallelograms are con-

nected by a screw-threaded rod 58 carried by the outwardly turned ends 60 of a split bracket 62.

Pairs of nuts 64 and 66 are carried by rod 58 on both sides of the inner sides of the parallelogram for adjusting the parallelogram toward and away from section 12. Additional nuts 68 are carried by rod 58 on opposite sides of ends 42 for tightening bracket 62 against the section for longitudinal adjustment of bracket 62 on section 12.

Rod 46 carries pairs of nuts 70 and 72 which extend on both sides of frame 52 and arms 44 for adjustment of the arms and frame toward or away from section 12. Additional nuts 74 are carried by rod 46 for tightening bracket 50 against section 12 and for longitudinal adjustment of bracket 50 on section 12.

One end of a resilient spring arm 76 is secured to section 12 and is adapted to receive bracket 50 to prevent longitudinal slipping of the bracket past the spring arm.

Apertures 78 are provided in ends 56 and frame members 52 said apertures are adapted to receive a bolt or the like carried by the ordinary hound of a wagon (not shown).

Adjustment of the hound to section 12 is made by loosening or tightening nuts 64 and 66 or by adjusting nuts 70 and 72.

Longitudinal adjustment of the frame 52 is made by loosening nuts 68 and 74 and sliding brackets 50 and 62 either rearwardly or forwardly on section 12.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

What I claim is:

1. A wagon tongue comprising an elongated hollow pole, telescoped sections carried by said pole, locking means for longitudinal adjustment of said sections relative to said pole, split brackets carried by said pole, screw-threaded rods carried by said brackets and spaced parallel to said pole, downwardly inclined arms carried by said pole on opposite sides thereof and connected at their lower ends to one of said rods for supporting said rod, a pair of hound members adjustably carried by said rod for transverse movement relative to said pole, said hound members each including an elongated frame having its forward ends bent inwardly upon itself to form a parallelogram, said hound members being disposed in a plane spaced parallel to the longitudinal axis of said pole, and a resilient arm fixed at one end to said pole and engaging one of said split brackets to limit sliding movement of both of said brackets in one direction.

2. A wagon tongue comprising an elongated

hollow pole having a plurality of telescoped sections including a rear section, a forward section and an intermediate section, said intermediate section being slidable into said forward section, and said rear section being slidable into said intermediate section, a first stop collar fixed to the rear end of said forward section, a second stop collar fixed to the rear end of said intermediate section and engageable with the first stop collar to limit the sliding movement of the intermediate section relative to the forward section, said first collar having diametrically opposed apertures therein, the forward end of said intermediate section having diametrically opposed apertures for registering with apertures in said first collar, a first fastener extendable through the apertures in said first collar and the forward end of said intermediate section for holding the forward section and the intermediate section extended relative to each other, the rear end of said intermediate section being provided with diametrically opposed apertures adjacent said second collar, the forward end of said rear section being provided with diametrically opposed apertures for registering with the apertures in the rear end of said intermediate section, a second fastener engageable with the apertures in the rear end of the intermediate section and the forward end of the rear section for retaining the rear section extended relative to the intermediate section, said rear end of said rear section being provided with a further pair of diametrically opposed apertures for registering with the apertures in the rear end of the intermediate section and the apertures in the first collar when said second fastener is removed whereby said first fastener will engage the apertures in the first collar, the apertures in the rear end of the intermediate section and the apertures in the rear end of the rear section to retain said intermediate section and said rear section within said forward section, and hound members carried by the forward end of the forward section.

3. The combination of claim 2 wherein said first fastener and said second fastener include headed pins, the free ends of said pins having apertures for removably receiving bendable holding pins.

4. The combination of claim 2 and means carried by the rear end of said rear section for limiting inward sliding movement of said rear section relative to said intermediate section.

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