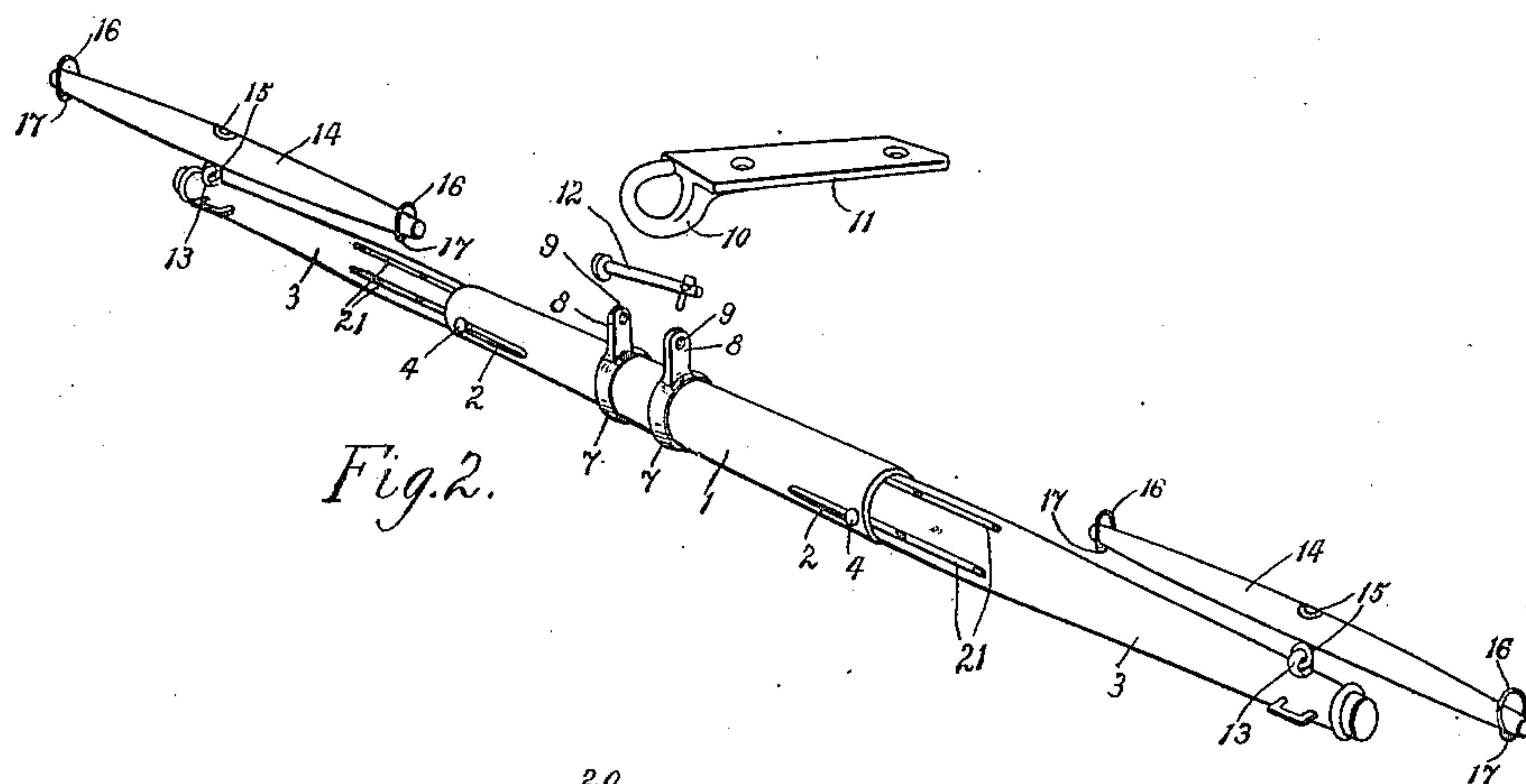


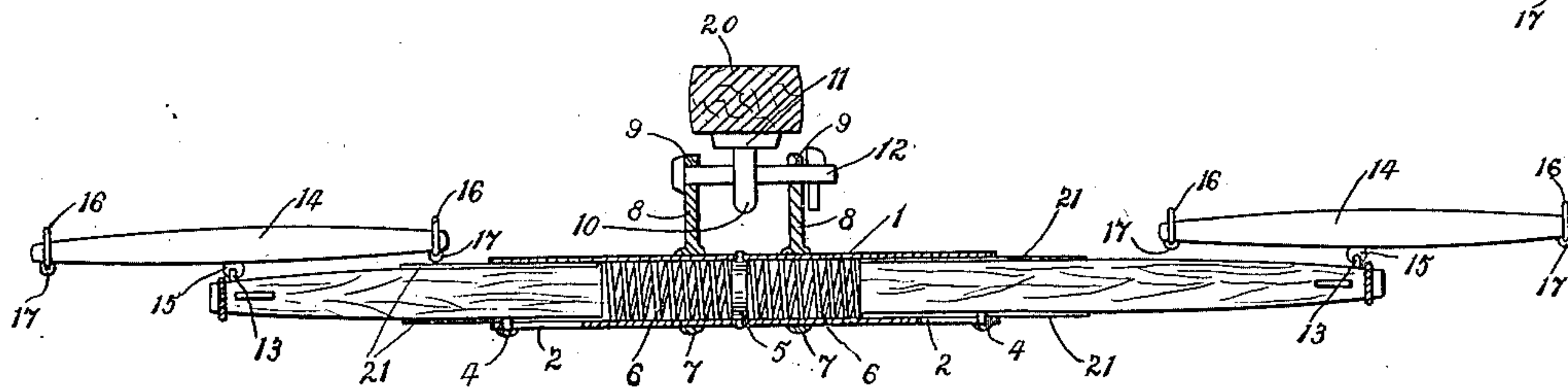
964,210.

Fig. 1. A side view of a horse wearing a harness. The harness includes a collar (18) with a strap (18a) and a shaft (19). The shaft is connected to a vehicle mechanism (1) via a coupling (14). The vehicle mechanism includes a shaft (14) and a coupling (14). The horse's head is shown in profile, and its tail is visible. The harness is labeled with various parts: 18, 18a, 19, 20a, 21a, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

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# UNITED STATES PATENT OFFICE.

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CANADA.

## SUPPORT FOR WAGON-TONGUES.

964,210.

Specification of Letters Patent.

Patented July 12, 1910.

Application filed September 28, 1909. Serial No. 520,053.

*To all whom it may concern:*

Be it known that we, ANGUS C. CAMERON and ISAAC WYNN, subjects of the King of Great Britain, residing at the towns of Moose Creek and Arnprior, respectively, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Supports for Wagon-Tongues, of which the following is a specification.

The invention relates to improvements in supports for wagon tongues, as described in the present specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially of a supporting-bar attached to the tongue intermediate of its length and having yoke-bars pivotally secured at the end thereof suitably supported by straps from the girth-bands or saddle, suitable breeching-straps being secured to the ends of said supporting-bar and to the collar, and guard-straps secured between either the saddle or the collar and the front of the tongue.

The objects of the invention are to devise a means of supporting the tongue from the girth-band, whereby the weight of the tongue is taken off the neck of the animal.

In the drawings, Figure 1 is a perspective view of the invention, showing one horse hitched thereto, and the tongue in dotted lines. Fig. 2 is a perspective view of the supporting-bar. Fig. 3 is a longitudinal sectional view of the yoke-bar.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is a tube or length of pipe having the longitudinal slots 2 toward each end thereof.

3 are bars preferably made of wood, and having their inner ends slidably arranged in the tube 1, suitable pins 4 being inserted through the slots in said tube into said bars, and limiting the movement of said bars therein.

5 is a washer or block fixedly secured midway of the length of the tube 1.

6 are spiral springs inserted in the tube 1 between the washer 5 and the inner ends of the bars, whereby said bars are spring-held to their outer position.

7 are strap irons firmly secured on the outer side of the tube 1 intermediate of the length thereof, and having the lugs 8 pro-

jecting from the upper side thereof, said lugs having the orifices 9 therethrough adjacent to the top thereof.

10 is an eye formed at one end of the plate 11, said plate being securely bolted on the underside of the wagon tongue 20 intermediate of the length thereof.

12 is a clevis pin inserted through the orifices in the lugs 8 and the eye 10, whereby the supporting-bar is securely fastened to the tongue.

13 are eye bolts inserted through suitable orifices in the outer ends of the bars 3.

14 are yoke-bars preferably made of wood and having the eye bolts 15 midway of their length and linked to the eye bolts 13.

16 are rings secured to the ends of the bars 14 by the staples 17.

In arranging the supporting-bar to support the wagon tongue or pole, the yoke-bars are fastened at the ends thereof to the saddle 18 preferably by short straps 19 inserted through the rings 16. It must be understood, however, that the straps 19 may be fastened to the girth-bands at the sides of the horse, and support the tongue equally well.

The spiral springs arranged within the tube 1 allow for a limited movement of the bars 3 inwardly, so that a span or team of horses may work with the full width of the supporting-bar between them, or may come closer together, but in any case the tongue will be supported the same distance from each of the horses, and any swinging movement of the tongue will be eased by the action of the springs and limited to prevent the tongue from striking the horses.

The preferable form of breeching used in connection with the tongue support herein described comprises the straps 20<sup>a</sup> secured to the ends of the bars 3 and to the regular breeching 21<sup>a</sup> by buckled loops as customary extending around the ends of said bars 3, and the customary rings at the ends of the breeching.

22 are guide-straps fastened to the tip of the tongue, and to the collar of the horse, whereby the horse will be guided to proper place beside the tongue.

23 are straps joining the collar with the ends of the bars 3, and forming a continuation of the breeching straps 20<sup>a</sup>, whereby the supporting-bar is securely held to the exact position on the horse without danger of its



interfering with the fore-legs of the horse, the said straps 23 being secured to the collar and to the ends of the bars 3 by looped ends suitably secured by buckles similar to the  
5 straps 20<sup>a</sup> hereinbefore mentioned.

In the event of the breeching straps being done away with, the straps 18<sup>a</sup> may be secured between the saddle 18 and the tip of the tongue to serve the same purpose as the  
10 breeching straps.

To have the bars 3 slide freely within the tube 1, it is desirable to provide metal strips 21, which are longitudinally secured on the bars 3 at the inner ends thereof, and bear on  
15 the inner periphery of the tube 1. It may also be here mentioned that the yoke-bars, though completing the preferable arrangement of the device, may be eliminated, and the supporting-bar fastened directly to the  
20 girth-band.

What we claim as our invention is:

1. A support for wagon tongues, in combination, a length of tube, bars slidably arranged in the ends of said tube, means for limiting  
25 the movement of said bars in said tube, spiral springs inclosed within said tube between the inner ends of said bars, a pair of strap irons encircling said tube and having lugs projecting therefrom and orifices  
30 through said lugs in alinement one with the other, a plate having an eye formed thereon and secured to the wagon tongue intermediate of the length thereof, and a clevis pin

inserted through the orifices in said lugs and the eye in said plate. 35

2. In a support for wagon tongues, the combination with the tongue, of a plate secured to said tongue substantially midway of the length thereof and having an eye formed at one end thereon, a length of tube  
40 having longitudinal slots toward each end thereof, bars slidably arranged in the ends of said tube, pins inserted through the slots in said tube into said bars, eye-bolts secured to the other extremities of said bars, a block  
45 secured in said tube intermediate of the length thereof, spiral springs inclosed in said tube between the inner ends of said bars and said block, a pair of strap irons encircling said tube and having lugs extending  
50 upwardly therefrom and orifices in said lugs in alinement one with the other, a clevis pin inserted through the orifices in said lugs and the eye in said plate, a pair of yoke-bars and means for securing said yoke bars to  
55 the extremities of said slidably-arranged bars.

Signed at the city of Ottawa, in the Province of Ontario, in the Dominion of Canada, this tenth day of August, 1909.

A. C. CAMERON.  
ISAAC WYNN.

In the presence of—  
VICTOR BELANGER,  
K. F. MACGIBBON.