

No. 702,291.

Patented June 10, 1902.

S. EBERSOLE.  
TONGUE SUPPORT.

(Application filed Apr. 5, 1902.)

(No Model.)

Fig. 1.

Fig. 2.

Fig. 4.

Fig. 3.

Witnesses:  
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# UNITED STATES PATENT OFFICE.

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## TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 702,291, dated June 10, 1902.

Application filed April 5, 1902. Serial No. 101,457. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL EBERSOLE, a citizen of the United States, residing at Clearspring, in the county of Washington and State of Maryland, have invented new and useful Improvements in Tongue-Supports, of which the following is a specification.

My invention relates to poles for vehicles, harvesters, &c.; and the object of the same is to construct a hinged pole or tongue which will be provided with a support located intermediate its ends and bearing on the ground, the outer end of which tongue will always remain at the same height no matter how much the tongue is inclined.

My invention therefore overcomes the well-known difficulty which arises in using tongues having a central support which bears on the ground.

The novel construction employed by me in carrying out my invention is fully described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a side elevation of a tongue equipped with my device and in its normal position. Fig. 2 is a side elevation with the tongue in its abnormal inclined position. Fig. 3 is a detail section of the lower end of the guides. Fig. 4 is a horizontal section of the same.

Like numerals of reference designate like parts in the different views of the drawings.

The numeral 1 designates a tongue hinged to the front part 2 of a vehicle, harvester, &c. Connected to the tongue 1 at a point near the middle is a spring-arm 3, which is attached by means of a bolt 4, slidingly mounted in guides 5, secured to the tongue. A spring 6 surrounds the bolt 4 and bears at one end on the guides 5 and at the other on the head 4<sup>a</sup> of the bolt 4.

The spring-arm 3 bears a plate 7 on its free end. Pivotaly secured to the plate 7 is a caster-wheel 8, located to run on the ground and support the tongue 1. Also carried by the arm 3 are two parallel guide-arms 9, which extend upwardly and embrace the tongue 1. The lower ends 9<sup>a</sup> of the guides 9 are bent at right angles and have slots 9<sup>b</sup> therein through

which bolts 10 pass to secure the guides to the plate 7. By this arrangement the distance between the guides 9 can be regulated and adapted for tongues of different sizes.

Perforations 11 are formed in the guides 9 and located oppositely in pairs. A cross-pin 12 passes through two of the perforations and is surrounded by a cylinder 13, bearing an ear 13<sup>a</sup>, having an aperture 13<sup>b</sup> therein. Lugs 13<sup>c</sup> on the ear form stops to limit the movement thereof. A bolt 14 passes through the aperture 13<sup>b</sup> and bears a nut 15<sup>a</sup>, which serves to confine a spiral spring 16, which surrounds the bolt 14 and bears on the ear 13<sup>a</sup>. The nut 15<sup>a</sup> also serves to adjust the tension of the spring 16.

One arm 17<sup>a</sup> of an elbow-lever 17 is connected to the lower end of the bolt 14, and the other arm 17<sup>b</sup> is attached to a connecting-rod 18. The elbow-lever 17 is fulcrumed in a standard 19, mounted on the tongue 1 in the rear of the guides 9. The upper end of the connecting-rod 18 is pivoted on a pintle 20, which extends through an aperture 21<sup>a</sup> in a lever-arm 22, fulcrumed at its lower end in a standard 23, mounted on the tongue 1. An elbow-lever 24 has its short arm 24<sup>a</sup> connected to the upper end of the lever-arm 22 and is fulcrumed on a standard 25, mounted on the front 2 of the machine.

Normally the tongue 1 extends almost horizontally, as shown in Fig. 1, the caster-wheel 8 supports the weight thereof, and the spring-arm 3 will take up the vibration caused by passing over rough ground. If the machine 2, to which the tongue is attached, be a harvester which it is desired to incline to cut low stubbles, the lever 24 is thrown into the position shown in Fig. 2, when the tongue will assume an inclined position; but the forward end or tip will stand at the same height as before, owing to the action of the spring-arm 3 on the connecting mechanism, which permits the rear end of the tongue to lower without changing the position of the tip.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

Having described my invention, what I



claim as new, and desire to secure by Letters Patent, is—

1. The combination with a hinged tongue, of a bolt slidingly mounted in guides carried by said tongue, a spring mounted to yieldingly hold said bolt, a spring-arm connected to said bolt, guides carried by said spring-arm and embracing said tongue and a caster-wheel carried by said arm and located to run on the ground to support said tongue, substantially as described.

2. The combination with a hinged tongue, of a spring-arm connected to said tongue a caster-wheel carried by the free end of said arm, guides carried by said arm and embracing said tongue, an apertured ear mounted on said guides, a pin slidingly mounted in said aperture, a spring yieldingly holding said pin against longitudinal movement, a lever mounted on said pole, and pivoted to said pin, and means for operating said lever.

3. The combination with a hinged tongue, of a spring-arm connected to said tongue, a caster-wheel carried by the free end of said arm, guides mounted on said arm and embracing said tongue, a cross-pin connecting said guides, an elbow-lever mounted in a standard supported by said tongue, one arm of said lever being connected to said cross-pin, and means for operating the other arm

of said elbow-lever to incline said tongue, substantially as described.

4. The combination with a hinged tongue, of a spring-arm connected to said tongue, a caster-wheel carried by the free end of said arm, guides carried by said arm and embracing said tongue, a lever mounted on said tongue and having one arm connected to said guides, a standard pivoted to said tongue, a lever fulcrumed on the body of the wagon and having one arm connected to said standard, and a connecting-rod connecting said standard and the other arm of said lever, substantially as described.

5. The combination with a hinged tongue, of guides embracing said tongue, means for yieldingly holding said guides against movement, a caster-wheel carried by said guides and located to bear on the ground, a lever carried by said tongue and having one arm connected to said guides, and means for operating the other arm of said lever, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

SAMUEL EBERSOLE.

Witnesses:

FRANK G. RADELFINGER,  
BENNETT S. JONES.