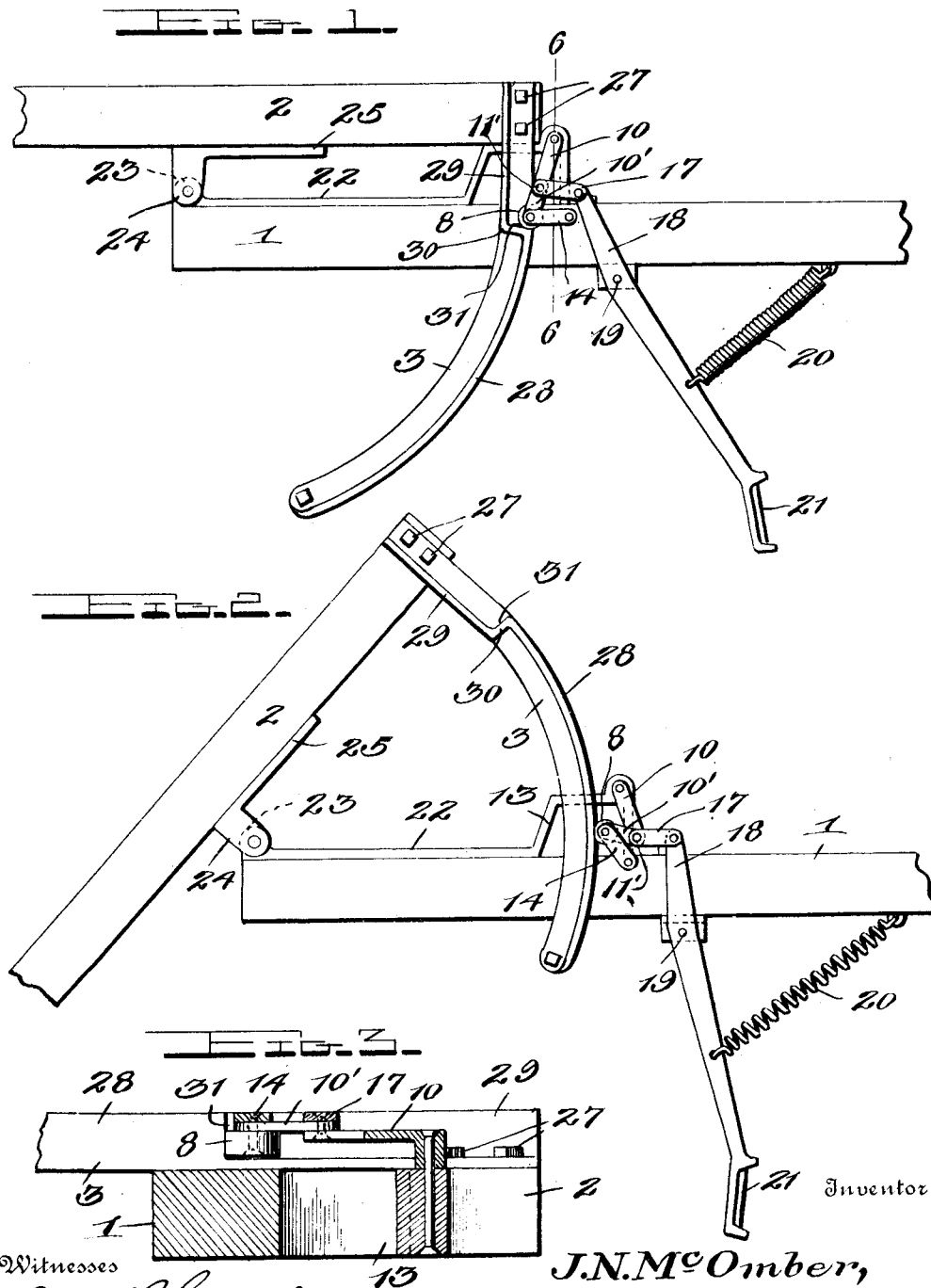


J. N. McOMBER.
 VEHICLE TONGUE.
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1,065,957.

Patented July 1, 1913.



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Witnesses

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JAMES NELSON McOMBER, OF NASHVILLE, MICHIGAN.

VEHICLE-TONGUE.

1,065,957.

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To all whom it may concern:

Be it known that I, JAMES NELSON McOMBER, a citizen of the United States, residing at Nashville, in the county of Barry and State of Michigan, have invented certain new and useful Improvements in Vehicle-Tongues, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to new and useful improvements in vehicle tongues, and more particularly to a tongue which is adapted for use in connection with a sulky or other various forms of plows, the object of the invention being to provide a movable and a rigid tongue section thereby allowing the tongue to break at any desired angle so that the draft animal will move in a more natural way instead of cramping the tongue around as is necessary with the rigid style of tongue, the vehicle being turned by the pull traces.

Another object of the invention is to provide a vehicle tongue of the above character which will possess advantages in points of efficiency and durability, is inexpensive to manufacture and at the same time is simple in construction and operation.

With the above and other objects in view the invention consists in the novel features of construction and the combination and arrangement of parts hereinafter more fully described, pointed out in the claims, and shown in the accompanying drawings, in which—

30 Figure 1 is a top plan view, the movable section being shown in a rigid position. Fig. 2 is a similar view showing the tongue in a released position, and Fig. 3 is a sectional view on the line 6—6 of Fig. 1.

Referring more particularly to the drawings, 1 indicates the rigid portion of the tongue which may be secured to a plow or vehicle of any well known type and to the outer end of which is pivotally secured the movable tongue section 2.

40 Secured at one of its ends to the inner end of the movable tongue section 2 is an angular curved arm 3 which is securely bolted to the tongue section 2 by means of the bolts 27. The vertically disposed flange 28 of the angular curved arm 3 is arranged upon the inner side thereof at one end as shown at 29, said vertical portion extending over to the outer side at a point adjacent one end thereof as shown at 30 to form a shoulder

31 against which the roller 8 abuts when the arm is in a locked position. The roller 8 is pivotally mounted upon the inner end of the arm 10 which is formed of two link sections 10 and 10', pivotally secured together as shown at 11'. A link member 14 is provided having one of its ends pivotally mounted upon the rigid section 1 and having its other end pivotally secured to the axle of the roller 8 so as to limit the swinging movement of the arm 10.

The bracket 13 which is secured to one side of the rigid section 1 is provided with an extension 22 which extends to the outer end of the rigid section 1 and is provided with an outwardly extending ear 23 arranged between and pivotally secured to the downwardly extending ears 24 formed upon the plate 25 which is secured to one side of the movable section 2.

Pivotally mounted upon the pin 19 which is arranged at one side of the rigid section 1 is an operating lever 18, the inner end of which is pivotally connected to the sectional arm 10 by means of the link member 17. The outer end of the lever 18 is provided with a foot piece 21 whereby the same may be readily pressed by the foot to remove the roller 8 from engagement with the shoulder 31 to allow the movable section 2 to turn the roller 8 after being released from the shoulder 31 riding upon the curved surface of the vertical flange 28. A coil spring 20 is provided having one of its ends secured to the operating lever 18 and its other end secured to the rigid section 1 of the tongue, the tension of said spring holding the roller 8, when in its operative position, securely into engagement with the shoulder 31 so as to prevent accidental displacement of the same.

From the above description taken in connection with the accompanying drawings, it will be readily apparent that I have provided a simple and efficient vehicle tongue whereby the draft animals which are secured thereto can easily turn a corner or turn nearly square around without cramping the tongue as is necessary with the rigid tongue in use at the present time, the pull upon the vehicle when turning a corner being entirely upon traces. It will also be seen that I have provided a combined rigid and loose plow tongue with an automatic closure and locking device which offers no resistance to the opening or closing movement of the

tongue until the tongue is nearly closed when it automatically takes up the work of closing the tongue and forces it shut with increasing pressure until it is quite closed and
 5 securely locked.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction and in the proportions may
 10 be resorted to without sacrificing any of the novel features or departing from the scope of the appended claims.

What I claim is:—

1. A vehicle tongue comprising a rigid
 15 section, a movable section pivotally secured to the outer end of the rigid section and arranged in parallel relation therewith, a curved arm rigidly secured at one of its ends to the inner end of the movable section,
 20 a shoulder formed on said arm adjacent one end thereof, a lever pivotally mounted upon the rigid section, an arm pivotally mounted upon the rigid section opposite the lever, said arm comprising pivotally connected link sections,
 25 a roller mounted upon one end of the arm and adapted to engage said shoulder, a link member having one of its ends pivotally connected to the sectional arm at its pivotal connection and having its other end
 30 pivotally connected to the inner end of the lever whereby pressure upon the outer end

of the lever will disengage the roller from the shoulder and release the movable section.

2. A vehicle tongue comprising a rigid 35 section, a movable section pivotally secured to the outer end of the rigid section and arranged in parallel relation therewith, a curved arm rigidly secured at one of its ends to the inner end of the movable section, a 40 vertically disposed flange formed upon said arm and arranged at one side thereof upon one end of the arm, said flange extending over and arranged upon the other side of the arm to form a shoulder arranged adjacent one end of the arm, an arm pivotally 45 mounted upon the rigid section, a roller mounted upon one end of the arm and adapted to engage said shoulder, an operating lever pivotally mounted upon the rigid 50 section and having one end pivotally connected to said arm whereby pressure upon the outer end of the lever will disengage the roller from the shoulder and release the 55 movable section.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JAMES NELSON McOMBER.

Witnesses:

DAMON A. SPENCER,
 FRANK S. WARD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."