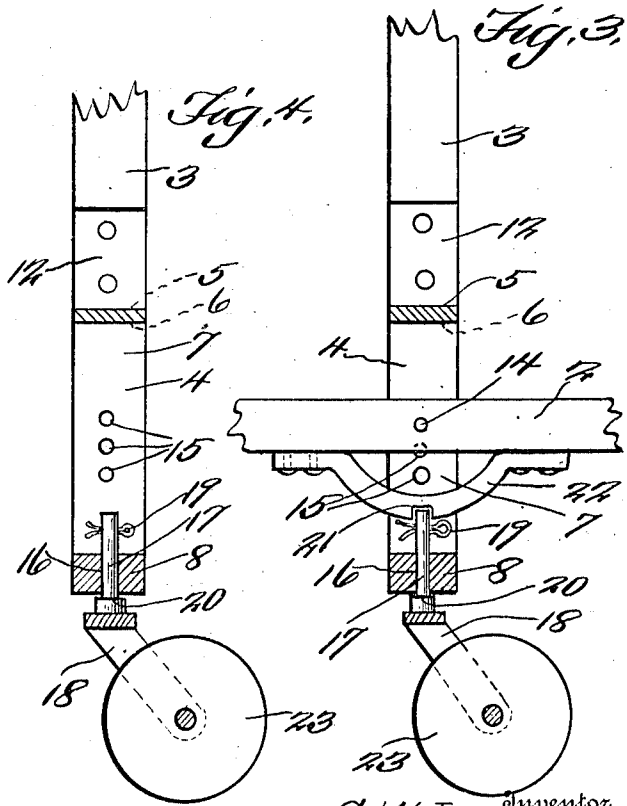
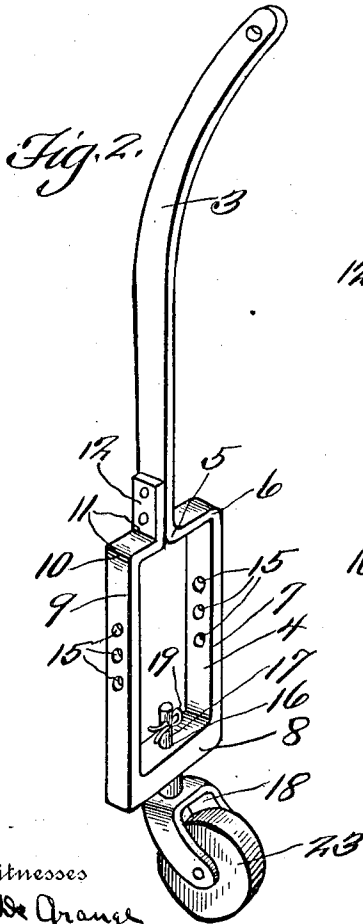
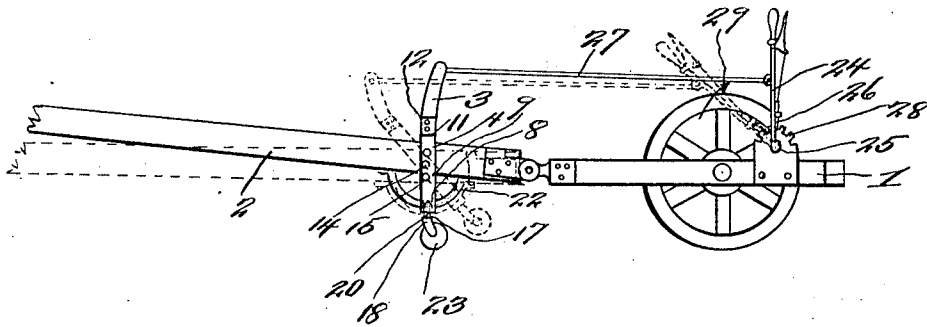


C. W. LOE.
TONGUE SUPPORT FOR BINDERS.
APPLICATION FILED JULY 20, 1912.

1,048,552.

Patented Dec. 31, 1912.

Fig. 1.



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UNITED STATES PATENT OFFICE.

CHARLES W. LOE, OF GOREE, TEXAS.

TONGUE-SUPPORT FOR BINDERS.

1,048,552.

Specification of Letters Patent.

Patented Dec. 31, 1912.

Application filed July 20, 1912. Serial No. 710,578.

To all whom it may concern:

Be it known that I, CHARLES W. LOE, a citizen of the United States, residing at Goree, in the county of Knox and State of Texas, have invented a new and useful Tongue-Support for Binders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful tongue support.

One of the objects of the invention is the provision of a device of this nature for supporting tongues of binders or other machines, in order to remove the weight and the strain from the necks of the animals, especially while making repairs or the like on the machine. However, this device may be in operative position, while the machine is in motion, if so desired.

A further object of the invention is to provide means for steadying the support, while in operative position.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view in side elevation of a portion of a binder machine with its tongue, showing the support as applied thereto, showing the support holding the tongue supported in full lines, and the support out of operative position in dotted lines. Fig. 2 is an enlarged detail view of the support. Fig. 3 is a sectional view. Fig. 4 is a detail view.

Referring more particularly to the drawings 1 designates a portion of a binder, having the usual tongue 2. The tongue support comprises a lever 3, the lower end of which terminates in an elongated loop 4, forming an integral part of the lever. In other words the lever is bent at 5 and 6, to form one side 7 of the loop, which is connected integrally with an enlargement 8, from the other end of which the other side 9 of the loop projects, and is disposed parallel to the other side. The side 9 is bent at 10 and 11, to form the extension 12, which is riveted or otherwise secured to the lever. The binder tongue passes between the sides 7 and 9, there being a bolt 14 passing through the sides and the tongue, in order to pivotally mount the lever. The bolt 14 may be adjusted in any one of the apertures

15 of the sides of the loop, in order that the tongue may be supported in a higher or lower position. The enlargement 8 is provided with an aperture 16, through which the shank 17 of the fork 18 extends. The shank is provided with a shoulder which engages the enlargement, and passing transversely of the shank at its upper end is a cotter pin 19, in order to prevent accidental withdrawal of the shank from the aperture of the enlargement. The shank 17 has considerable vertical play, owing to the fact that the distance between the cotter pin and the shoulder 20 of the shank is greater than the thickness of the enlargement. This vertical play is for the purpose of allowing the shank to engage and disengage a notch 21 of a segment bar 22, which is secured to the underface of the tongue. When the tongue is supported as shown in the drawings, and the shank is in engagement with the notch of the segment bar, the lever is held steady. Journaled in the fork 18 is a caster wheel 23.

A lever 24 pivoted at 25, and provided with a hand grip operated spring-tensioned dog 26 is provided. This lever is connected to the lever 3 by the bar 27. The dog of the lever 24 engages the teeth of the rack 28, in order to hold the lever in adjusted positions. When the lever 24 is thrown in the direction of the arrow 29, the upper end of the lever 3 is thrown rearwardly, in order to throw the lower portion of the lever 3 including the caster wheel under the tongue, in which position the upper end of the shank 17 engages the notch of the segment bar, thereby holding the tongue steady, and supported in such wise as to remove the weight and strain from the necks of the animals.

From the foregoing it is to be observed, there has been devised a simple and novel tongue support, and one which has been found desirable and practical.

In the drawings there have been disclosed certain features, but in practical fields these features may necessitate alterations, to which the patentee is entitled, provided the alterations are comprehended within the scope of what is claimed.

To disengage the upper end of the shank 17 from the notch, the operator pulls upon the reins, to cause the animals to raise their heads, and in so doing, as a rule, the tongue slightly jolts upwardly, and as the tongue is being so jolted, the operator quickly op-

erates the lever 24, which in turn will throw the lever 3 to an inoperative position.

The invention having been set forth, what is claimed as new and useful is:—

5 In combination, a binder tongue, a lever having an elongated loop at its lower end to receive the tongue, the loop having one of its sides constructed from a portion of the lever, an enlargement provided with an
10 aperture forming an integral part of the side, the other side of the loop forming an integral part of the enlargement with its upper portion fastened to the lever, the sides of the loop having a plurality of apertures,
15 a device adapted to extend through any two of the apertures, for pivotally mounting the lever to the tongue, the tongue having a seg-

ment bar provided with a notch, a fork having a caster wheel and provided with a shank extending through the aperture of the
20 enlargement, the shank having vertical play in the aperture and provided with means to limit the shank in such play, and means for operating the lever to a position to support
25 the tongue, so that the upper end of the shank may engage the notch, to steady the lever.

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

CHARLES W. LOE.

Witnesses:

J. E. ALLEN,

C. C. MALONEY.

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