

(No Model.)

D. Z. YODER.
TONGUE SUPPORT.

No. 465,744.

Patented Dec. 22, 1891.

FIG 1

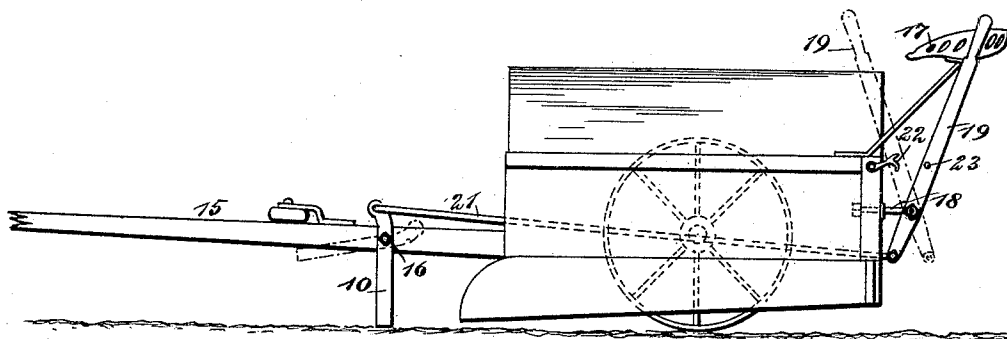


FIG 2

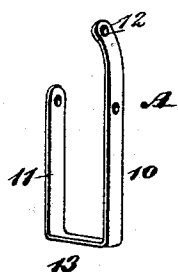
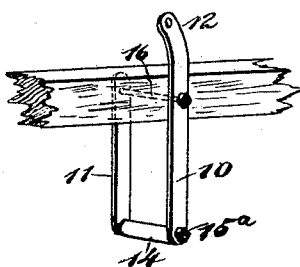


FIG 3



WITNESSES:

H. Walker
C. Sedgwick

INVENTOR

D. Z. Yoder
Munn & Co

BY

ATTORNEYS.

UNITED STATES PATENT OFFICE.

DAVID Z. YODER, OF STERLING, OHIO.

TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 465,744, dated December 22, 1891.

Application filed September 1, 1891. Serial No. 404,446. (No model.)

To all whom it may concern:

Be it known that I, DAVID Z. YODER, of Sterling, in the county of Wayne and State of Ohio, have invented a new and useful Improvement in Tongue-Supports, of which the following is a full, clear, and exact description.

My invention relates to an improvement in tongue-supports, and is designed for self-binders, reapers, mowers, corn-planters, field-rollers, or any farm implement or piece of machinery or vehicle, but relates more particularly to self-binders, as in this class of implements an enormous weight is thrown upon the horse's neck when the driver dismounts from the machine.

The prime object of the invention is to provide a tongue-support of exceedingly simple, durable, and economic construction, embracing a minimum number of parts and capable of attachment to any vehicle or machine requiring a support for the tongue in a convenient and expeditious manner, and capable, also, of being readily manipulated by the driver or attendant.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of a binder having the improvement applied thereto. Fig. 2 is a perspective view of the support removed from the tongue, and Fig. 3 is a perspective view of a slightly-modified form of the support.

The support A is somewhat U-shaped in general contour, and one member 10 is of greater length than the opposite member 11, the upper end of the longer member being forwardly curved and provided with an eye 12 at its extremity. The support may be made of any desired material, and its construction may be varied. In Fig. 2 the support is illustrated as being constructed of bar metal, the bow member 13, which is the lower member, being straight.

In Fig. 3 the support consists of three con-

nected members, the short member 11 and the long member 10 corresponding to the equivalent members in the form of device illustrated in Fig. 2. The bow member, however, instead of being made of metal and integral with the side members, consists of a roller 14, preferably of wood, held to revolve between the lower extremities of the side members 10 and 11 by passing a screw or bolt 15^a through said members and the roller, which bolt or screw may be provided with a head at one end and a nut at the other, or with a nut at each end. The support is pivotally connected with the tongue or pole 15 of the machine to which it is to be applied, the longer member being upon the inner side of the pole, and when attached to a binder this member is upon the side next to the cutter, sickle-bar, and platform.

The pivot bolt or pin 16 is passed through the upper portion of the shorter member, through the tongue, and also through the longer member of the device between its center and upper extremity, so that the forwardly-curved extremity of the longer member is at some distance above the upper face of the tongue or pole, as shown in Figs. 1 and 3.

At the rear of the vehicle or machine, or near the driver's seat 17, a bracket 18 is secured, which bracket is preferably of angular shape, the body member being attached to the vehicle or machine, and the outer end or arm extending horizontally at a right angle from the body. The body member of the bracket is ordinarily secured to the frame of the vehicle or machine by passing it through the frame, screwing upon its inner end a nut and placing a check-nut upon its outer end in engagement with the frame, as shown in Fig. 1; but the attachment may be made in any other approved manner.

A lever 19 is fulcrumed upon the arm of the bracket 18, and the said lever may be provided with apertures, whereby it can be adjusted, when required, upon the bracket. The lever is fulcrumed some little distance above its lower extremity, and its lower extremity is connected with the upper end of the longer member of the support through the medium of a rod 21, chain, cable, or the equivalent thereof. Preferably, however, a rod is employed, and when such is used it comprises a

straight body portion, which is pivotally connected with the lever, and an arm extending at an angle from the body portion at its forward end, the said arm being passed through the eye 12 in the longer member of the support and held in pivotal connection with the device in any suitable manner. It will thus be observed that the attachment comprises but four parts—namely, the support itself pivoted to the tongue or pole, the bracket attached to the machine or vehicle, the lever fulcrumed upon the bracket, and the connection between the lever and the support. The lever extends upward convenient to the driver's seat, as shown in Fig. 1, and when a support for the pole is not necessary the lever is thrown forward, as shown in dotted lines, whereupon the lower end of the support is carried upward in the direction of the outer end of the tongue or pole close beneath the latter, as shown in dotted lines in Fig. 1, and is maintained in this position by means of a hook 22, engaging with a suitable stud or pin 23 upon the lever, or any other form of locking device may be substituted.

By releasing the locking device from the

lever and drawing the lever rearward the support is carried to the perpendicular position shown in full lines in Fig. 1 and to an engagement with the ground, thus entirely relieving the team from the weight of the pole, and, as heretofore stated, the support is especially adapted for use in connection with self-binders and harvesters.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with the pole or tongue of a self-binder or harvester, of an essentially-U-shaped support having its members of unequal length, said support embracing the tongue, and pivoted thereto with its longer member projecting above the same, a pivoted lever adjacent to the driver's seat, a connection between the lever and the longer member of the support, and means for locking the lever in position, substantially as described.

DAVID Z. YODER.

Witnesses:

HENRY C. KING,
WILLIAM WISSLER.