(No Model.)

D. WARD.

TONGUE SUPPORT.

No. 524,292. Patented Aug. 7, 1894.

Fig. 1.

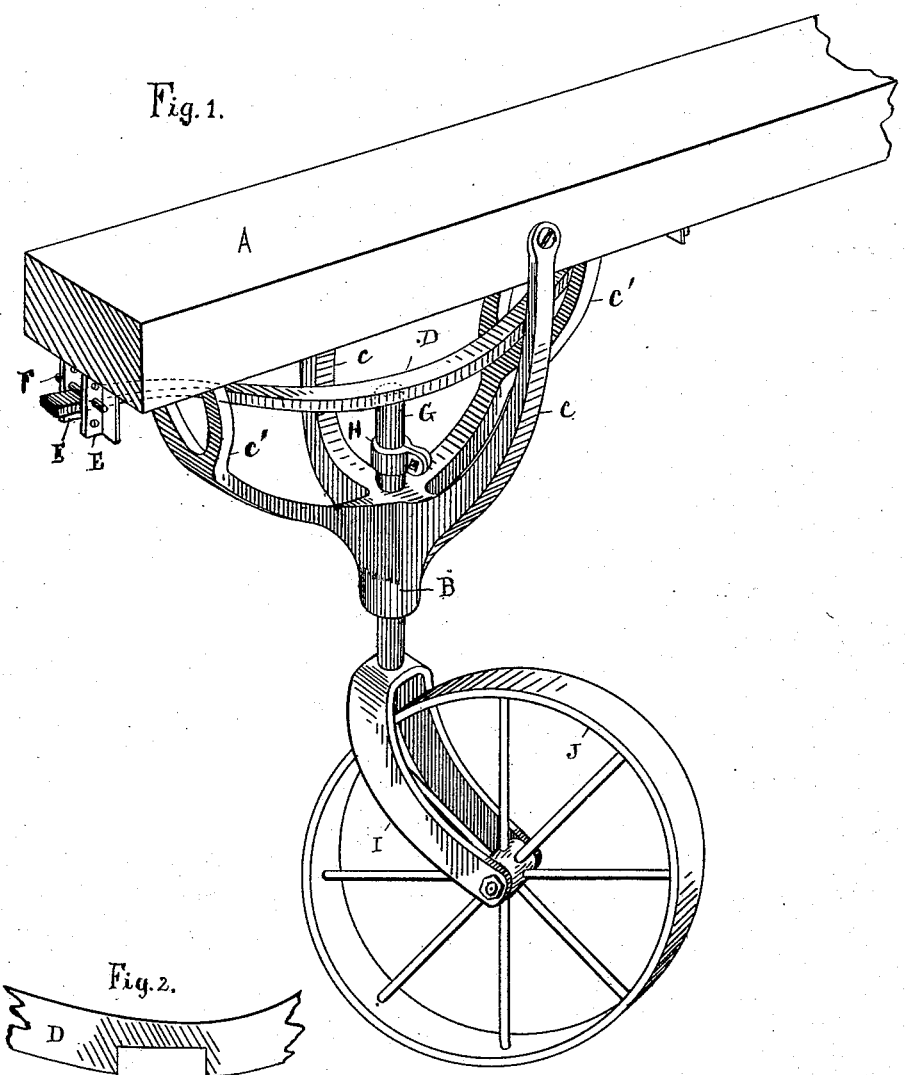


Fig. 2.

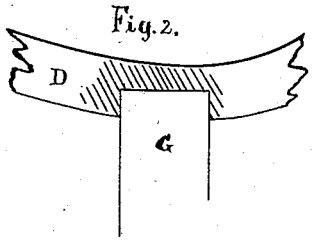
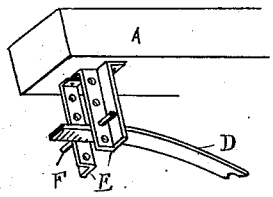


Fig. 3.



Witnesses -
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UNITED STATES PATENT OFFICE.

DANIEL WARD, OF PEORIA, ILLINOIS.

TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 524,292, dated August 7, 1894.

Application filed September 22, 1893. Serial No. 486,245. (No model.)

To all whom it may concern:

Be it known that I, DANIEL WARD, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented an Improvement in Tongue-Supports, of which the following is a specification.

This invention relates to improvements in tongue supports.

The object of the invention is to provide a tongue with a follower wheel, and with means whereby the wheel may be adjusted for any height of tongue by means of a spring and adjustable pins which limit the height of the spring with relation to the said tongue.

In the drawings presented herewith, Figure 1 represents a perspective view of the invention. Fig. 2 is a sectional elevation of part of a spring and plunger. Fig. 3 is a perspective view, in detail, of a portion of the tongue showing a portion of a spring and adjusting parts.

The tongue is represented at A while B represents a stirrup which carries four arms C C and C′ C′. The arms C C are secured to the sides of the tongue, and the arms C′ C′ are secured to the under side of the tongue and are forked to allow the spring D to pass therethrough. The said spring D is provided with a socket as shown in Fig. 2 into which is inserted the upper end of a vertical plunger G having at its lower extremity a fork I carrying the wheel J. This plunger G passes through the body B of the stirrup and a clip H is secured to said plunger above said stirrup with which to limit the downward movement of the wheel. The spring D is bent from the middle of its length, where it engages with the vertical plunger G, upward at both ends to near the tongue. A vertical support comprising the angle pieces E E, placed side by side, is secured at either end of the spring to the under side of the tongue and is provided with holes and a pin F. It will be seen that the ends of the spring D are inclosed by the angle pieces and bear upward upon the said pins F held therein. The spring is held in its place by the socket and the plunger G and by the weight of the machine.

If it is desired to allow the tongue to drop lower it is only necessary to place the pins F in the upper holes or place in the lower holes when raising the tongue. Intermediate holes are provided for other adjustments for height. By the means described, the tongue may be placed at any height and a much more efficient tongue support is provided than has been heretofore known so far as I am aware.

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

A tongue support comprising a stirrup B having the arms C C C′ C′, the tongue A having the free ends of said arms secured thereto, substantially as described, a plunger G mounted in said stirrup, a fork I secured to the lower end of said plunger, a wheel J carried in the fork, a flat spring D engaging the upper end of the plunger, and bent upward at either end, a vertical support comprising the angle pieces E E secured to the tongue near either end of the spring D and the pins F passing through the said angle plates for engaging the ends of said spring substantially in the manner and for the purposes set forth.

DANIEL WARD.

Witnesses:
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