(No Model.)

S. POTTS.

TONGUE SUPPORT FOR GRAIN BINDERS.

No. 507,591. Patented Oct. 31, 1893.

Fig. 1.

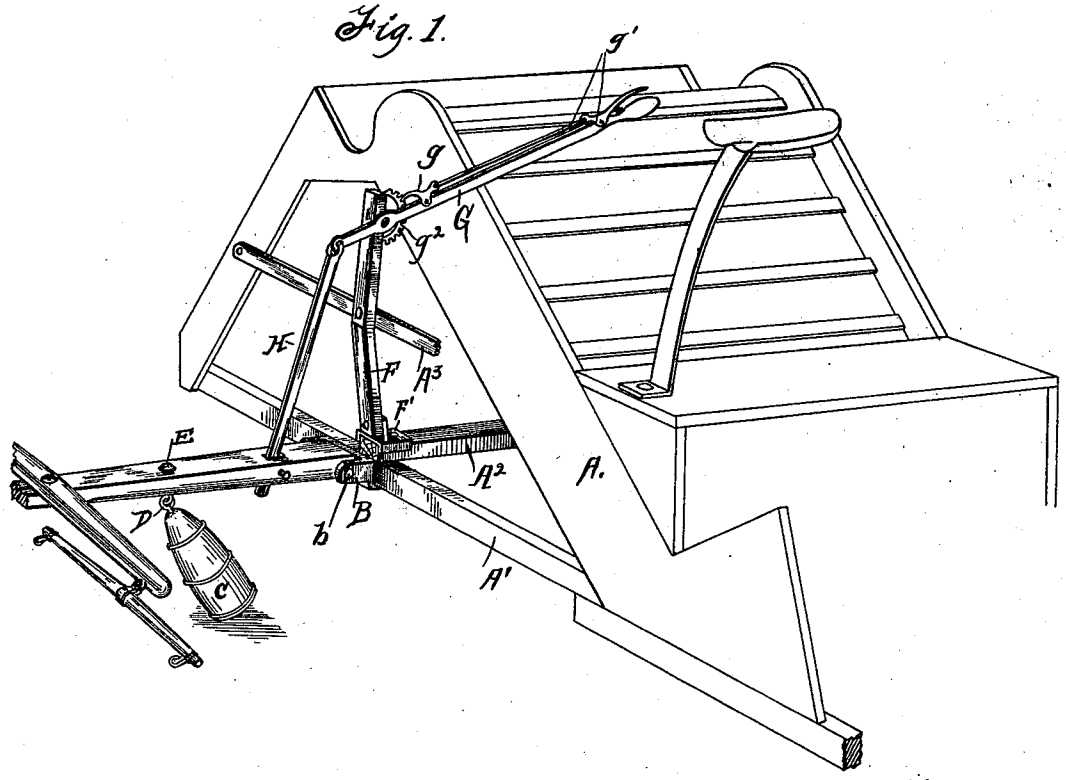


Fig. 2.

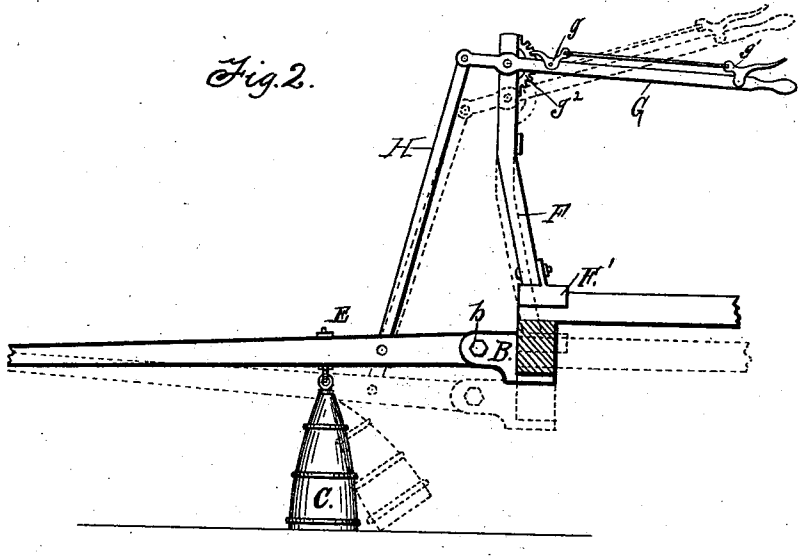
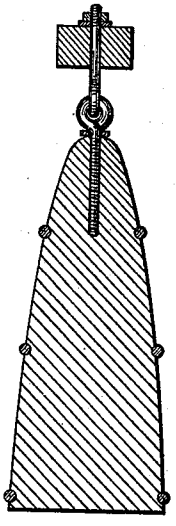


Fig. 3.



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UNITED STATES PATENT OFFICE.

SAMUEL POTTS, OF BUTLER, MISSOURI.

TONGUE-SUPPORT FOR GRAIN-BINDERS.

SPECIFICATION forming part of Letters Patent No. 507,591, dated October 31, 1893.

Application filed September 17, 1892. Serial No. 446,145. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL POTTS, of Butler, Bates county, Missouri, have invented certain new and useful Improvements in Tongue-Supports for Grain-Binders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to tongue supports, especially adapted to grain harvesters, where a very heavy frame is necessarily supported upon the horses' necks when the machine is in operation, and it is the design of my invention to provide simple, effective and inexpensive means for supporting the tongue, and relieving the horses' necks of the load when the machine is not in operation, or standing still, and controllable by the driver from his seat. This will greatly rest the animals, and enable them to again resume their necessarily irksome labor with this class of work.

In the accompanying drawings, Figure 1. is a perspective of the binder frame, or tongue end of a harvester, upon the stubble side of the machine. Fig. 2. is a diagrammatic sectional elevation, showing the frame and the rear end of the tongue raised by the lever to let the block swing beneath the tongue, from the normal working position shown by dotted lines, to support it. Fig. 3. is an enlarged vertical sectional elevation of a tongue supporting block used in connection with my invention.

The binder frame, A, is herein shown as of the usual form in which the grain is bound while carried over the wheel, but the invention is applicable to any form of binder or binder frame where the tongue is supported upon the horses' necks when in motion.

The forward longitudinal frame piece, A′, is connected to the rear longitudinal frame piece by a brace, A^2, in the line of draft, and a pivot block, B, is firmly bolted to the frame piece, A′, and adjacent to the forward end of the brace A^2. The tongue is pivoted at *b* to the said block B, and a prop block, C, of approximately conical form having an eye bolt, D, screwed longitudinally into its smaller and upper end, is suspended from a similar eye bolt, E, passing through the tongue and fitted at its upper end with a nut and washers, as shown in Fig. 3, or otherwise secured thereto.

A post, F, secured to a shoe plate, F′, firmly bolted to the forward end of the brace A^2, and also bolted to a cross brace, A^3, upon the forward end of the binder frame, carries at its upper end a segment rack, to the center of which is pivotally supported a lever, G, provided with a pawl, *g*, operated by a rod and spring handle, *g′*, to engage the notches, g^2, in the segment rack. The forward, or short, end of the lever is pivotally connected by a rod, H, with the tongue between the pivot, *b*, and the eye bolt E.

The rear end of the tongue and the forward end of the frame may be lifted from the position shown by dotted lines in Fig. 2. by pressing down upon the lever to engage the pawl with the notches, and to the position shown by full lines in the same figure. This will allow the prop block to swing forward and rest upon the ground. The pawl, *g*, of the lever, G, is then released from its notch, and the rear end of the tongue and forward end of the frame will drop until the tongue and frame are supported entirely upon the prop block, and the front end of the tongue is raised and the horses' necks are thus relieved of the weight of the tongue and frame. When the team starts, and the machine moves forward, the prop block will be upset and drag upon the ground, as shown by dotted lines, in its normal position.

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

In a tongue support for harvesters, the combination with a harvester having a tongue pivoted to the front end of the harvester, and a prop-block pivotally carried at the under side of the tongue a suitable distance forward of the pivotal point of the tongue, of a lever pivotally carried near the upper portion of the harvester, and a link-bar pivotally connected to the front end of the lever, and also pivotally connected to the tongue between the rear pivotal end thereof and the prop-block, substantially as and for the purpose set forth.

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

SAMUEL POTTS.

Witnesses:
M. S. CLAY,
P. H. HOLCOMB.