

L. J. WILSON.
WHIP HOLDER.

APPLICATION FILED OCT. 17, 1910.

1,019,873.

Patented Mar. 12, 1912.

2 SHEETS—SHEET 1.

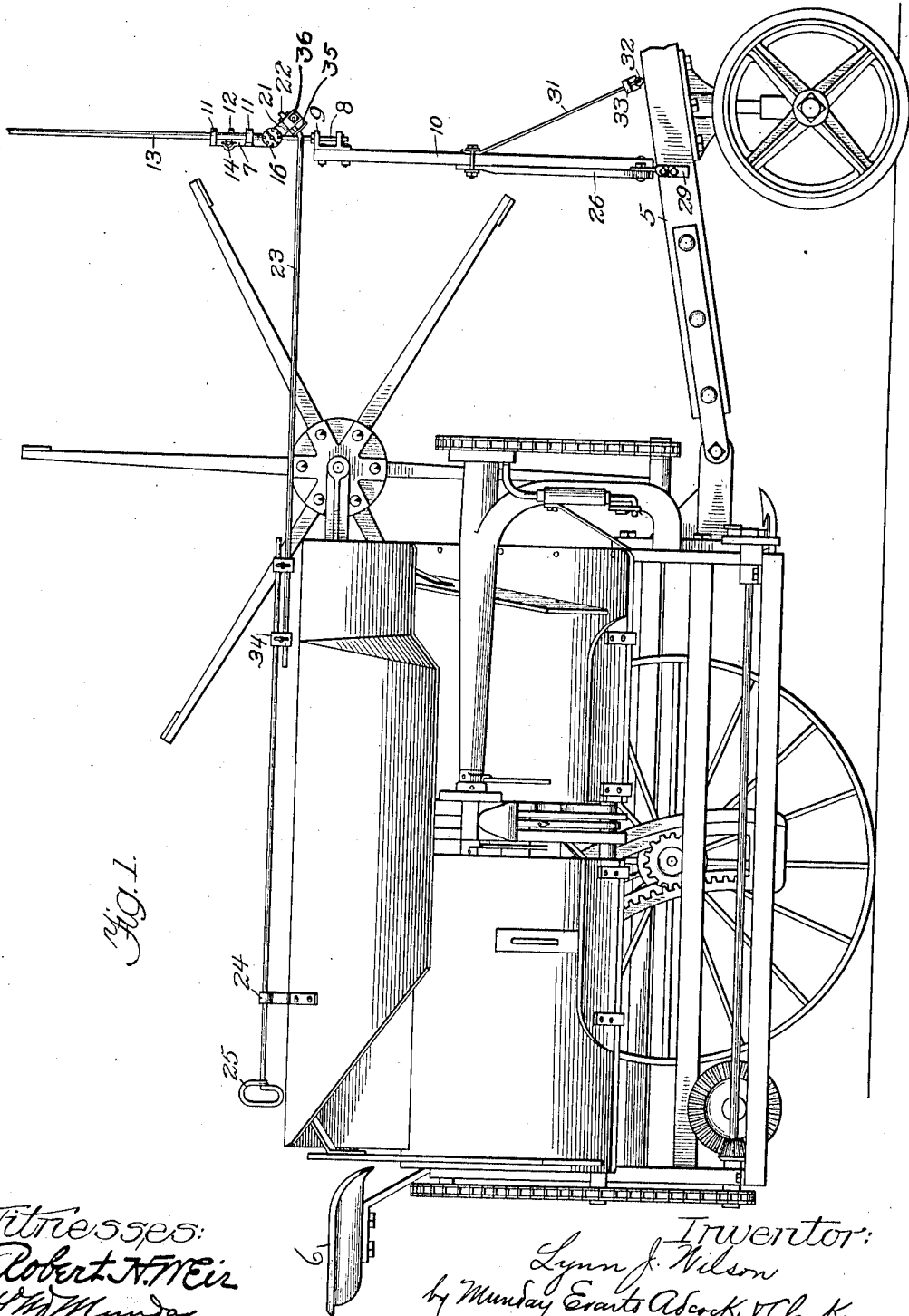


Fig. 1.

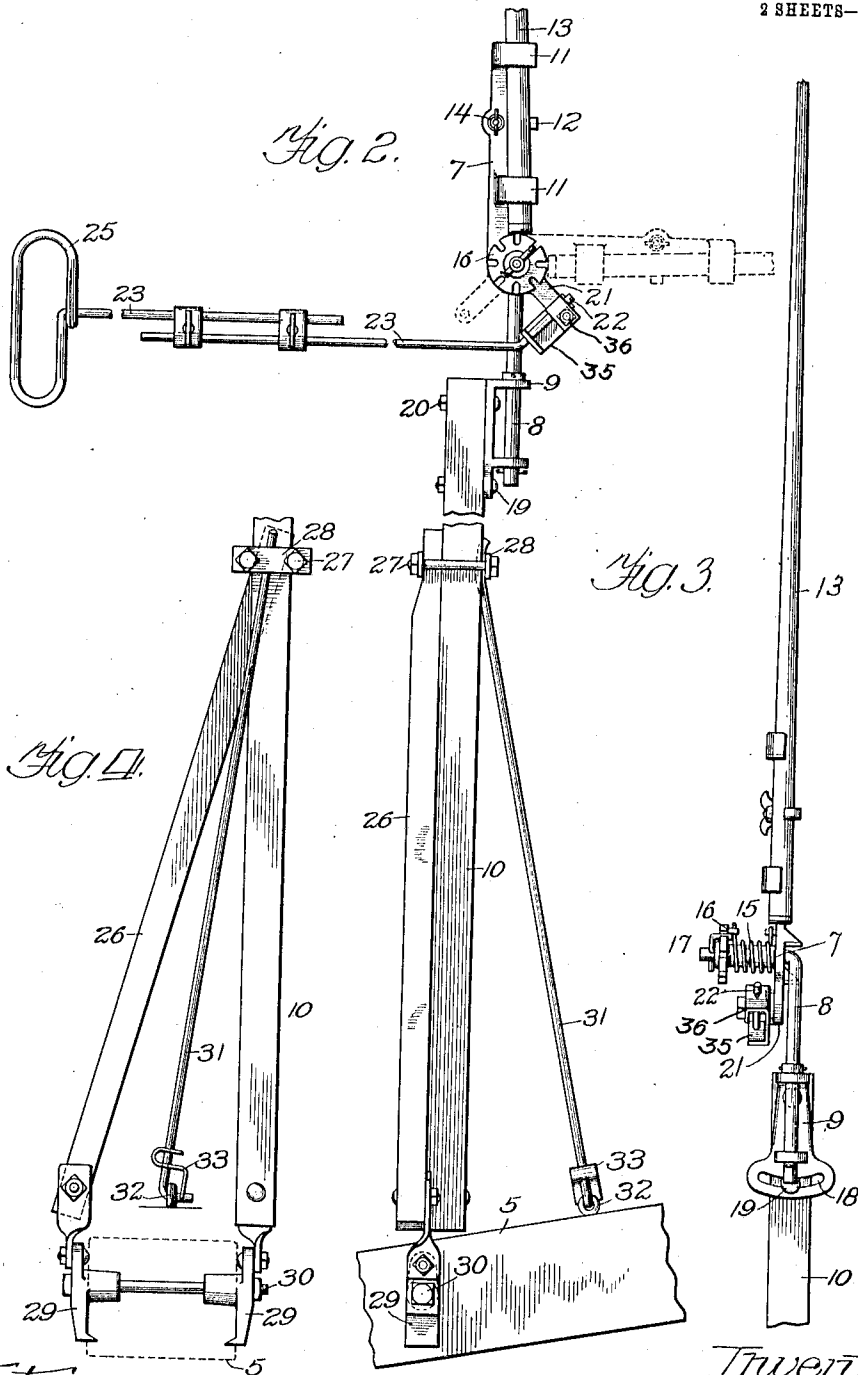
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UNITED STATES PATENT OFFICE.

LYNN J. WILSON, OF LOCKPORT, ILLINOIS.

WHIP-HOLDER.

1,019,873.

Specification of Letters Patent.

Patented Mar. 12, 1912.

Application filed October 17, 1910. Serial No. 587,382.

To all whom it may concern:

Be it known that I, LYNN J. WILSON, a citizen of the United States, residing in Lockport, in the county of Will and State of Illinois, have invented a new and useful Improvement in Whip-Holders, of which the following is a specification.

In grain binders, the driver's seat is located at a considerable distance in the rear of the horses, and consequently the driver is obliged to employ a long whip, in order that he may from his seat reach the horses. Long whips are objectionable. They are very liable to become broken so that they cannot be used at all, or so that they are rendered ineffective.

The present invention is intended to remove this difficulty, and it consists in a whip holder adapted to be swung so as to carry the whip into action, and it is located in close proximity to the horses, and a manipulating rod extends from it into proximity to the driver's seat, so that the driver is enabled, while seated, to whip the horses or any of them who may need correction or discipline.

The construction of my device and its mode of operation will be fully understood from the subjoined description and from the accompanying drawing, in which latter—

Figure 1 is an elevation of a grain binder to which my invention has been applied. Fig. 2 is an elevation of the invention detached. Fig. 3 is a side elevation at right angles to Fig. 2 of a portion of the device, and Fig. 4 is an elevation of another portion of the device at right angles to Fig. 2.

In said drawing, 5 represents the tongue of a grain binder and 6 is the driver's seat attached to the rear of the machine.

The whip holder consists of a bar 7, mounted upon a horizontal pivot 8 formed of a wire bent at right angles and secured in a keeper 9 attached to a vertical bar 10, preferably of wood, which is secured to the tongue by means hereafter described. The bar 7 is provided with clips 11 and 12 adapted to seize the whip stock 13 upon opposite sides, and one of these clips is adjustably secured by a thumb screw 14, so that the clips are adapted to be used with whip stocks of varying sizes. The bar 7 can be tipped from the vertical to the position indicated in broken lines in Fig. 2, or to any intermediate position, and for this purpose, a spring 15 encircling the pivot 8 is connected

to it, as seen in Fig. 3, and to a notched disk 16 mounted on the pivot and locked against rotation thereon by a pin 17 having its end bent over and adapted to be inserted in the notches of the disk. This pin passes through a transverse opening in the pivot, and its end is bent at right angles and is adapted to be inserted in that one of the notches which gives the desired inclination to the whip stock. The keeper 9 is adjustably secured to the vertical bar 10 so that the pivot may be inclined to either side desired, by means of a long slot 18 in its lower end through which a bolt 19 passes into and preferably through the bar. The upper bolt 20 attaching the keeper to the bar acts as a pivot in this adjustment of the keeper.

Depending in an inclined direction from the base of bar 7 is an arm 21 upon which is mounted a housing 35 in which is loosely confined the inclined end 22 of a rod 23 extending from the holder back into proximity to the driver's seat, said housing being pivoted on a bolt 36 so that it may turn freely when the rod 23 is turned on its axis. At the rear end this rod may be supported by a bearing 24 and it is also desirably provided with a loop 25 at this end, serving as a means by which it may be grasped by the driver. The bearing 24 may be supported upon any stationary proximate portion of the machine.

When the driver desires to use the whip on the horses, he pulls upon the rod 23 and thereby swings the whip downward, the spring 15 yielding to permit this, and immediately reacting and returning the whip to its original position. If the driver wishes to reach a horse at either side, he is able to do this by twisting the rod 23 at its handle, in one direction or the other. The rod, which is unconfined at the end connected to the whip holder is of course quite pliable at that end, and when the handle is twisted, such end bends readily to permit its point 22 to make such movement as is necessary to effect the turning of the whip so the blow may be delivered to the side desired. This turning of the whip so as to vary the direction of the blow can be effected instantly, and may be simultaneous with the longitudinal movement of the rod which causes the blow.

The keeper 9 is provided with projections through which the vertical arm of the pivot wire 8 extends as plainly shown and in which it is free to swivel.

The bar 10 is used in conjunction with braces so that its vertical position will be firm, and a desirable construction of these is shown in Figs. 2 and 4. One of the
 5 braces 26 is desirably made of wood and united at its top to the bar 10 by a clamp consisting of bolts 27 and plates 28, and at the bottom, both this brace and bar 10 are provided with feet 29, having teeth adapted
 10 to enter the sides of the tongue and to be secured by a bolt 30 passing through them and through the tongue. A second brace 31, preferably formed of wire, is held at the top by one of the plates 28, and its bottom
 15 is bent at right angles and inserted through an eye, 32, the stem of which is driven into the top of the tongue. A retaining device 33 of any suitable construction may be employed to prevent the bent end of the brace
 20 from slipping out of the eye 32.

The invention renders the use of a long whip entirely unnecessary, and the driver is enabled by it to control his horses as effectively as he could if he held the whip in his
 25 hand.

The invention has been devised especially for use upon grain binders, but it obviously can be used on any sort of vehicle or machine where the driver is at a considerable
 30 distance from the horses.

The driver's controlling rod 23 is preferably made adjustable in length by employing two parallel rods in its construction, on one of which the loop or hand grasp
 35 25 is formed, and on the other of which the bent end is located, and connecting the two by clips or couplings 34, adapted to permit the rods to slide with reference to each other. In this manner the rod is rendered
 40 rigid throughout its whole length, enabling the driver at all times to turn the whip in any direction desired by turning the rod axially and to operate it in that direction quickly and energetically by pulling on the
 45 rod, and it is calculated to retain this rigidity in hard service.

The bar 10 and its braces may be attached to the tongue in any desired position, and the bolt 30 instead of being passed through
 50 the tongue in the manner shown may be located wholly above the tongue if preferred.

I claim:—

1. The combination with the pivot wire bent at right angles as shown, of a whip holder pivotally mounted on the horizontal
 55 arm of said pivot, a spring encircling said horizontal arm and acting to return the holder after the whip which has been used, a notched disk receiving the bent end of the spring and rigid on said arm and determining the normal inclination of the whip, a support for the vertical arm of the pivot wire in which it may swivel and means for positioning and operating the whip holder.

2. In a device of the kind specified, the
 65 combination with a pivot wire bent at right angles, of a whip holder pivotally mounted on the horizontal arm of said wire, a keeper 9 adjustably secured to a stationary support, and in which keeper the vertical arm
 70 of said wire is swiveled, means for operating the whip, and a spring for returning it to normal position.

3. In a device of the kind specified, the combination with a pivot wire bent at right
 75 angles, of a whip holder pivotally mounted on the horizontal arm of said wire, a spring encircling said arm and acting to return the whip to normal position after it has been used, and means whereby said spring
 80 controls the normal inclination of the whip.

4. In a device of the kind specified, the combination with a pivot wire bent at right
 85 angles, of a whip holder pivotally mounted on the horizontal arm of said wire, a spring encircling said arm and acting to return the whip to normal position after it has been used, and the notched disk made fast on said wire and adapted to receive the bent end
 90 of the spring.

5. In a device of the kind specified, the combination with a pivot wire bent at right
 95 angles, of a whip holder pivotally mounted on the horizontal arm of said wire, a keeper 9 secured to a stationary support and in which the vertical arm of said wire is swiveled, said keeper being also adjustable upon its support, and means for operating the whip.

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