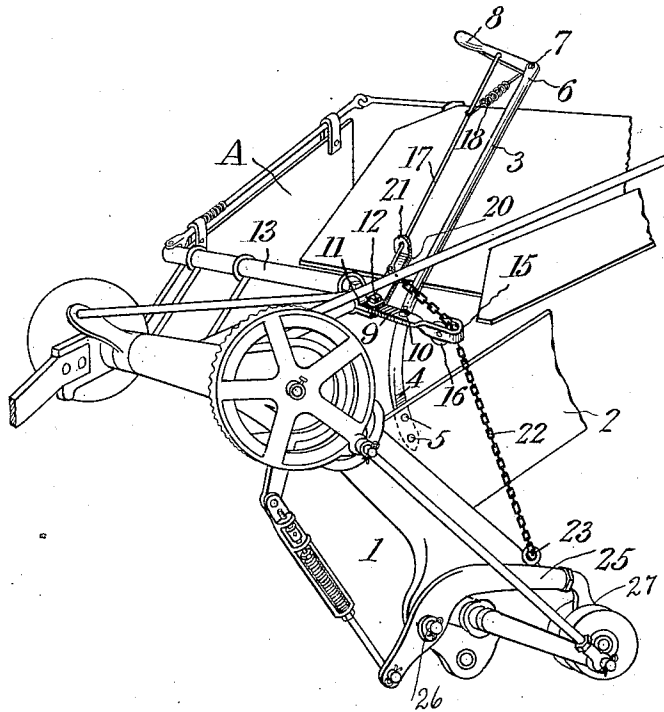


H. J. WALLACE.
BINDER.

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1,052,630.

Patented Feb. 11, 1913.



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HARRY J. WALLACE, OF HAVANA, ILLINOIS.

BINDER.

1,052,630.

Specification of Letters Patent.

Patented Feb. 11, 1913.

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To all whom it may concern:

Be it known that I, HARRY J. WALLACE, a citizen of the United States, and a resident of Havana, in the county of Mason and State of Illinois, have invented certain new and useful Improvements in Binders, of which the following is a specification, reference being had to the accompanying drawing.

This invention has relation to certain new and useful improvements in binders employed in harvesting grain; and the special object of my invention is to provide a harvester with a hand trip, of a simple and inexpensive nature and of a compact and durable construction, which is capable of accurate adjustment in position upon a harvester enabling the operator to instantly trip the binder by hand, should that become necessary, the device being especially adapted to be used in connection with a McCormick harvester.

With these and other objects in view the present invention consists in the combination and arrangement of parts as will be hereinafter more fully described and finally pointed out in the appended claims, it being further understood that changes in the specific structure shown and described may be made within the scope of the claims, without departing from the spirit of the invention.

The accompanying figure shows a perspective view of a fragmentary portion of a McCormick harvester, showing my hand trip as connected thereto.

In the use of a harvester, and this is especially true in regard to the McCormick harvester, it is necessary to adjust the position of the binder head, in order to successfully operate the machine. If the grain is short the head is adjusted forward and in especially long grain rearward of its normal position. In short grain it usually occurs that the grain will feed down until about half enough is past the packers to trip the binder and then it will "fuzz up," going in all directions, most of the grain however going toward the rear of the machine, while some will drop off. This fuzzing results in the throat of the binder being filled up and finally when enough has lodged behind the packers, it will trip it and tie a string around a very small portion of what is there, while the rest of the grain is scattered over the field. In the use of my hand trip,

however, if the operator carefully observes the operation of the machine, he can operate the trip by hand as soon as the grain begins to fuzz up. In doing this, a fairly small bundle will be made while the rest of the grain will feed down properly. So also where considerable weeds or pea vines are found with the grain will these wad up in the machine so tight before the automatic trip operates, that they will cause the machine to clog, often dragging the master wheel and throwing the entire machine out of operation.

In the accompanying drawing the numeral 1, designates the binder head and 2, a relatively stationary member thereof. To this member 2, I attach the supporting bar 3, which is curved at its lower end 4, and is apertured to receive the securing bolts 5, by means of which the bar is secured in position. The upper end 6, of this bar has an aperture to receive the bolt 7, giving pivotal support to the lever 8. Secured to the lower end of the bar 3, is the cross-bar 9, secured mid-length to the bar 3, by means of the bolt 10. The end 11, of the cross-bar is in the form of a clamping collar secured by means of the bolts 12, to the breast plate supporting bar 13, of the binder A. The outer end of the cross-bar is bent at right angles to the main portion of the bar and is recurved to form the loop 15, within which is revolubly held the sheave 16. Slidably held within the opening of a bracket 20, having the apertured upstanding end 21, is the connecting rod 17, the upper end of which is hooked into a suitable opening within the lever 8. A spring 18, normally draws the rod 17, upward. As shown, the bracket 20, forms a part of and extends approximately at right angles from the bar 9. Secured to the lower end of the rod 17, is the chain or other pliable connection 22, which passes over the sheave 16, and is secured to the eye 23, forming a part of the trip stop 25, as used in the McCormick harvester. The spring 18, insures the chain 22, being held taut at all times.

My attachment does not interfere with the free operation of the trip arm 25, when operated automatically and by means of the clamping collar 11, the attachment is adjustably secured to the binder. This arm is pivotally held upon the stud 26, and at one end carries the clutch 27. When the arm 25 is raised, it releases the clutch, permit-

ting the starting of the binder mechanism, which is not shown. Now when it is desired for any special purpose to trip the head, the operator simply throws the hand lever 8, upward which results in the connected trip stop being brought into action.

Having thus described my said invention, what I claim as new and desire to secure by United States Letters Patent is:

10 1. The combination in a binder of a binder head a trip stop, a supporting rod secured to a part of the binder, a cross-bar secured intermediate of its ends to said supporting rod, a lever secured to said rod, means to secure said cross-bar to a suitable part of said binder head, an apertured bracket extending from said cross-bar, a rod slidably held within said bracket aperture and secured to said lever; a spring to normally force said rod in one direction, and a pliant connection extending from said rod to said trip stop.

25 2. The combination in a binder of a binder head a trip stop, a supporting rod secured to a suitable part of the binder, a cross-bar fixed to said supporting rod having one end secured to a suitable part of said binder head, an apertured bracket extending from said cross-bar, a lever secured

to the end of said supporting rod, a connecting rod extending from said lever through the aperture of said bracket, a spring to normally force said rod in one direction, and a pliable connection extending from said rod to said trip stop.

35 3. The combination in a binder of a binder head a trip stop, a supporting rod secured at its lower end to a suitable part of the binder, a cross-bar having a clamping collar engaging a suitable part of said binder head and secured to said supporting rod, a sheave carried by said cross-bar, a bracket extending from said cross-bar having an aperture, a lever secured to the upper end of said supporting rod, a connecting rod extending from said lever through the aperture of said bracket, a spring normally forcing said connecting rod in one direction, and a pliable connection extending from said connected rod over said sheave and secured to the trip stop of said binder.

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

HARRY J. WALLACE.

Witnesses:

A. F. TERRELL,

J. S. MEIGS.

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