G. W. N. YOST.

Harvesters.

No. 137,812. Patented April 15, 1873.

Fig. 1.

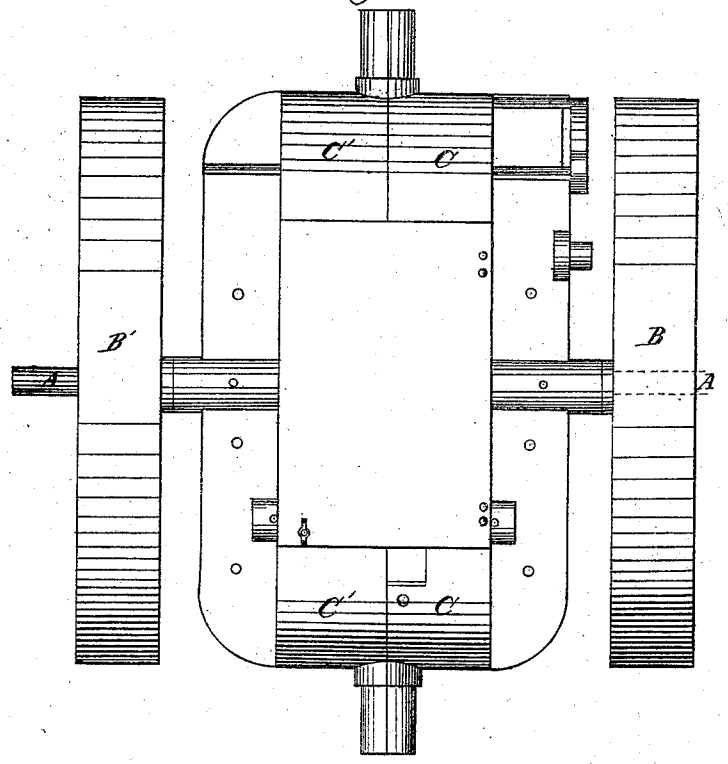

Fig. 2.

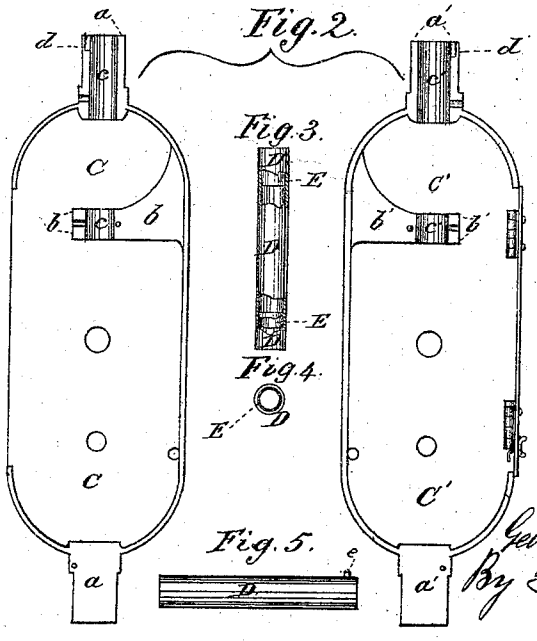

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses
John A. Tauberschmidt
John F. C. Preinkert

George W. N. Yost.
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UNITED STATES PATENT OFFICE.

GEORGE W. N. YOST, OF CORRY, PENNSYLVANIA, ASSIGNOR TO "ACME MOWER AND REAPER COMPANY," OF NEW YORK, N. Y.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **137,812**, dated April 15, 1873; application filed September 16, 1872.

CASE A.

To all whom it may concern:

Be it known that I, GEORGE W. N. YOST, of Corry, Pennsylvania, have invented an Improved Bush-Holder for Mowing and Reaping Machines, of which the following is a specification:

The nature of the invention is in the arrangement of a detachable bush-holding sleeve within the main frame of a mowing and reaping machine so as to hold it therein by the gear-wheels and hold it from revolving by a spur.

The accompanying drawing, with the following description thereof, fully illustrates the invention.

Figure 1 represents a view of the parts combined. Fig. 2 represents a view of the inner sides of the casing-plates of the inclosing-box main frame. Fig. 3 represents a lengthwise view of the bush-holder with the journal-bearing bushes therein. Fig. 4 represents an end view of the bush-holder with the journal-bearing bushes therein. Fig. 5 represents a plan view of the bush-holder.

The following is the description: A represents a main axle, or two main axles combined, of a mowing or reaping machine. B represents a left-side driving-wheel on the main axle A. B′ represents a right-side driving-wheel on the main axle A. C represents a left-side metal casing-plate on the main axle A, between the driving-wheels B B′. C′ represents a right-side metal casing-plate on the main axle A, between the driving-wheels B B′. *a* represents a lug or ear, half cylindrical, a part of, and projecting out from, each end of the left-side casing-plate C. *a′* represents a like lug or ear at each end of the right-side casing-plate C′. The combination of the projections *a a′* of the casing-plates C C′, when the casing-plates are combined into an inclosing-box or main frame, makes lugs, whereby the plates are fastened firmly together by bands around the hubs, and whereby the connecting-frame may be attached to the main frame. *b* represents a rib, a part of, and projecting up from, the bottom and in from the side of the fore part of the left casing-plate C. *b′* represents a like rib of the right casing-plate C′. *c* represents a circular groove in the ear *a* and rest *b* of the left casing-plate C, in the plane of, and in line at a right angle to, the main axle A. *c′* represents a like groove in the ear *a′* and rest *b* of the right casing-plate C′. Uniting the circular grooves *c c′* of the ears *a a′* and rests *b b′* of the casing-plates C C′, when the casing-plates are combined into an inclosing-box or main frame, makes a hole for a journal-bearing bush-holder. *d* represents a recess in the fore ear *a* of the left casing-plate C, projecting radially out from the groove *c*. *d′* represents a like recess in the right casing-plate C′. Uniting the recesses *d d′* of the fore-ears *a a′* of the casing-plates C C′, when the casing-plates are combined into an inclosing-box or main-frame, makes a slot at a right angle to, and out from, the bush-holder hole *c c′*. D represents a metal tube or sleeve or bush-holder lying within, and extended through, the hole *c c′* of the inclosing-box or main frame C C′. *e* represents a spur projecting radially out from the fore end of the bush-holder D, and adapted to, and put within, the recess *d d′* of the inclosing-box or main frame C C′. E represents a metal bush for a journal-bearing within each end of the bush-holder D.

In this way I hold the journal-bearings of the crank-wheel axle, for which the invention is peculiarly well adapted, though it also is good for the journal-bearings.

The small bevel-pinion on the inner end, and the crank-wheel on the outer end, of the crank-wheel axle prevents the sleeve D, while in use, from moving endwise; and the spur *e* within the recess *d d′* of the main frame C C′ prevents it from revolving. It is a fraction smaller than the hole *c c′* of the main frame, so that it can be taken out and put in by the fingers.

Thus, when a bush, E, gets worn out the bush-holder D can be removed easily to replace or repair the bush, and can be held firmly and solidly when in place within the main frame C C′.

The essential feature of the invention is the combination of the loose tube or sleeve

with a tubular part of the main frame of a mowing or reaping machine, when held therein in the manner described, and prevented from revolving by a spur of the sleeve in a recess in the frame.

The following is a summary of what I claim and desire to have patented:

The arrangement of a detachable bush-holding journal-bearing sleeve within the main frame of a mowing or reaping machine, when held therein by gear-wheels on the axle within such sleeve, and prevented from revolving by a spur, substantially as described.

G. W. N. YOST.

Witnesses:
CHARLES BIRD,
JAMES DENSMORE.