

**J. S. TRUXELL.**

## Harvesters.

No. 136,628.

Patented March 11, 1873.

Fig. 1.

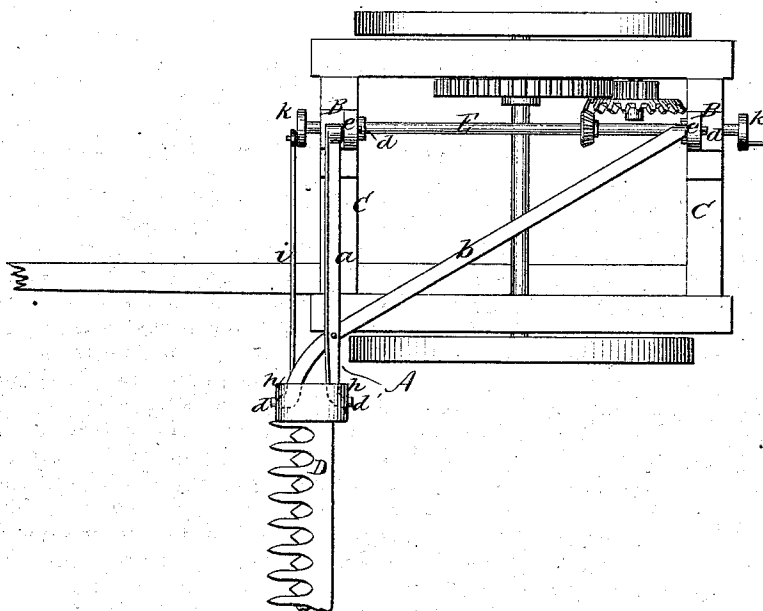
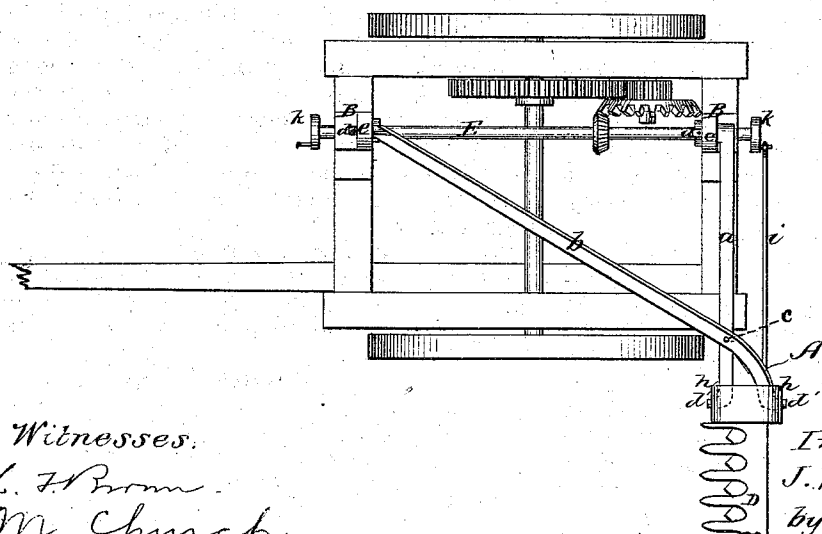


Fig. 2.



Witnesses:

C. F. Brown.

Mr. Church

*Inventor.*

*J. S. Truxell.*

by his Attys.

Hill & Ellsworth.

# UNITED STATES PATENT OFFICE.

JOHN S. TRUXELL, OF GREENSBURG, PENNSYLVANIA.

## IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 136,628, dated March 11, 1873.

*To all whom it may concern:*

Be it known that I, JOHN S. TRUXELL, of Greensburg, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Harvesters; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a plan view of the under side of the machine showing the front cut; and Fig. 2 is a similar view showing the rear cut.

Similar letters of reference in the accompanying drawing indicate the same parts.

This invention belongs to that class of harvesters in which the cutter-bar can be placed either at the front or rear of the frame, the front cut being considered best for mowers and the rear cut for reapers, as giving more room for the working of the automatic rake.

The invention has for its object to improve the construction of machines of this class in such manner that the cutter-bar can be transferred from one end of the machine to the other without change of other parts of the apparatus save those immediately connected with the cutter-bar. To this end the invention consists in the combination, with a harvester-frame and cutter-bar, of a pair of jointed connecting-braces constructed so as to admit of shifting the bar from front to rear or from rear to front on simply inverting and reversing the braces, as I will now proceed to describe.

In the drawing, A are the braces aforesaid, the same consisting of two bars, *a b*, jointed together at *c*, and provided with prongs, *d d'*, at their ends. B B are plates attached to the under sides of the front and rear cross-bars, C of the machine-frame, and cast with lugs *e*, each of which has a transverse orifice, which orifices receive the prongs *d* on the inner ends of the braces. The lugs *h* on the inner end of

the finger-bar D have also transverse orifices which receive the prongs *d* on the outer ends of the braces. These outer ends are placed between the lugs *h*, and their prongs *d'* extend in opposite directions, and are therefore made to enter the holes in the lugs *h* by opening the braces. A sufficient opening of the braces for this purpose is effected by the insertion of the prongs *d* in the lugs *e*. The shorter brace *a*, as shown in the drawing, is always in line with the cutter-bar, and the longer brace *b* always inclined to it, whether the cutter-bar is at the rear end of the machine or at its front end. In the former case the bar *b* pulls on the cutter-bar and in the latter case it pushes it. The prongs are all held in their several places by merely passing a key through the prong *d* of the brace *b*.

To shift the cutter-bar, all that needs to be done is to take out the key, slide the prongs *d* back or forward, according as the cutter is at the rear or front of the machine, unship the prongs *d'* from the cutter-bar, invert and reverse the braces, connect them once more with the lugs *h* and *e*, and insert the key again. The pitman *i* shifts with the cutter, and is driven in either position by hitching it to the wheel *k* or a crank on the adjacent extremity of the long shaft E that runs from end to end of the machine, passing through the boxes B, and having a wheel or crank at each end. No other parts of the machine require the least change.

Having thus described my invention, what I claim is—

The jointed-bars A combined with a harvester-frame and cutter-bar in the manner described, so as to allow the cutter-bar to be placed either at the front or rear end of the frame.

JOHN S. TRUXELL.

Witnesses:

N. K. ELLSWORTH,  
C. F. BROWN.