



# United States Patent Office.

ABRAM GAAR, OF RICHMOND, INDIANA.

Letters Patent No. 104,571, dated June 21, 1870.

## IMPROVEMENT IN GRAIN-SEPARATORS.

The Schedule referred to in these Letters Patent and making part of the same.

### To whom it may concern:

Be it known that I, ABRAM GAAR, of Richmond, Wayne county, Indiana, have invented certain new and useful Improvements in Grain-Separators; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the drawings which accompany this specification, forming a part of the same, and to the letters of reference marked thereon.

The object of my invention consists in constructing the lower portion of the rear end of the case or housing of grain-separators in detachable sections, so that they can be taken off or put on at pleasure, by which two machines can conveniently be placed upon one ordinary platform car for transportation, while, as now constructed, a single machine can only be transported on one car, thus reducing the bulk of the machine and also the cost of freights.

Another advantage which I claim for my invention is to be found in its affording a cheap and ready means for attaching a straw-stacking attachment to an ordinarily-constructed separator by the addition of what is shown as the detachable portion of my machine, thus affording a cheap, simple, and effective manner of providing machines already in use with a straw-stacking apparatus, when required.

To enable those skilled in the art to construct and operate my improvement, I will proceed to describe the same.

Figure 1 is a perspective view of the rear end of a separator frame, showing the rear lower section of one side detached.

Figure 2 is a view of the section so detached.

In fig. 1—

A A A represent the framing of the rear end of a separator constructed in the ordinary manner, and B B are the upper portions of the casings or hous-

ings constituting the sides of the separator, which are rigidly attached to the framing.

A short post, E, is fastened securely in an oblique position to the upper rail of the framing A', and the casing B, projecting a suitable distance below the casing B, and provided with transverse holes, *i i*, through which pass screw-bolts *a a*.

In fig. 2—

C is a section of the lower portion of the rear end of the casing, provided with a hanging post, D, securely attached to the same.

The upper end of the hanging post D projects above the upper edge of the section C, and has holes, *a' a'*, through which pass the screw-bolts *a a*, which serve to secure it in a substantial manner to the oblique post E.

The detachable section C is constructed with holes F' F' to receive butts F F, which secure its forward end to the perpendicular portion of the framing A.

The hanging post D, when thus properly placed and secured, serves as a support for the straw-stacking apparatus to be attached to, both in machines originally constructed with that device and in old machines when that device is sought to be added, thus effecting economy of room in transportation and economy in the cost, applying the straw-stacking apparatus to machines already in use.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination and arrangement in a grain-separator, constructed substantially as described, of the removable sections C and hanging posts D and E, as and for the purpose specified.

Witnesses:

WM. F. DENNIS,  
M. E. MCMEANS.

ABRAM GAAR.