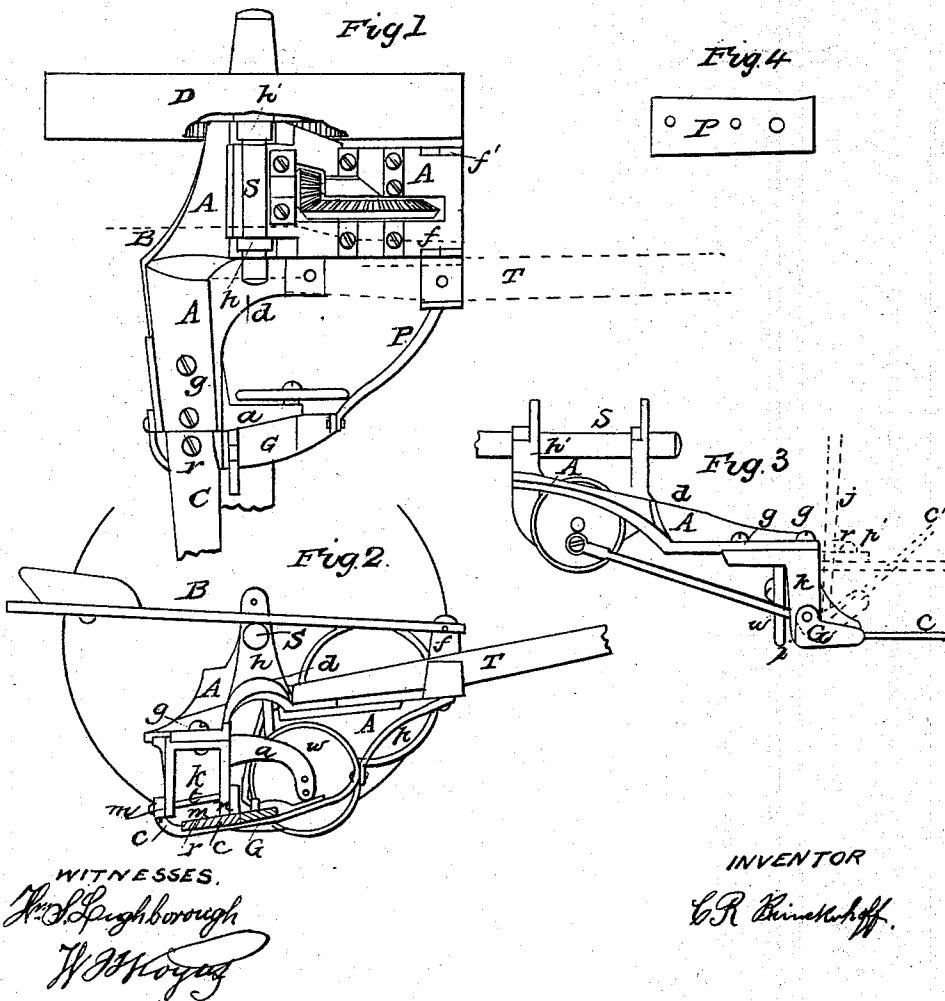


C. R. BRINCKERHOFF.

Mower.

No. 49,497.

Patented Aug. 22, 1865.



UNITED STATES PATENT OFFICE.

C. R. BRINCKERHOFF, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN HARVESTING-MACHINES.

Specification forming part of Letters Patent No. 49,497, dated August 22, 1865.

To all whom it may concern:

Be it known that I, C. R. BRINCKERHOFF, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in the Construction of Mowing-Machines which may be very readily converted into a reaper; and I do hereby declare the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a top view of my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a rear elevation, the driving-wheel D and the seat being removed. Fig. 4 is a detached view of the adjusted plate, shown by the dotted lines at P', Fig. 3.

Like letters indicate corresponding parts in the several figures.

This invention relates to that class of mowers having cast-iron frames; and it mainly consists in making the frame in such a way as not to require any drilling or fitting, except to rim out the two holes in which the journal-shaft is inserted, and only requiring fifteen bolts to put the machine together and in running order.

To enable others to make and use my invention, I will describe its construction and operation.

The bed-frame A is made, as shown in Figs. 1, 2, and 3, all the bolt-holes being cast in, and even the openings through the standards or hangers *h* and *h'* to receive the axial arm or shaft S. The tongue T and the seat-bar B are removed in Fig. 1 and shown by dotted lines, so as to show the exact plan of the bed-frame A. The hangers *h* and *h'* extend above the shaft, as seen in Figs. 2 and 3. There are also two lugs, *f* and *f'*, at the front end of the frame, and in case the machine is converted into a reaper the reel-posts would be attached to these four points. The seat-bar B is pivoted to the standard *f*, and rests upon the shaft S astride of standard *h*. The arch *d* strengthens the frame and makes room for the pitman-rod to work in. The knee-piece *k* is attached to the frame by the bolts *g*. This knee has an arm, *a*, projecting from the front side, to which the carrier-wheel *w* is attached. The shoe G, to which the cutter-bar C is attached, is hinged to the base of the knee, the lip *i*, Fig. 3, of

which projects sufficiently below to form a stop for the shoe and cutter-bar to rest against and prevent their falling below a proper line. There is a guard-plate or shield to the frame A, and pivoted to toe or front end of the shoe, and, of course, in a line with the rear and middle hinge-joints, *m* and *n*. This bar strengthens and supports the point of the shoe, and also prevents any cut grass or other obstructions from overriding the point of the shoe and getting back into the working parts to clog them. Several holes are provided in the arm *a*, whereby the carrier-wheel may be raised or lowered, as may be necessary. There is a hole made in the rear end of the shoe at *c* to receive a bar, (shown by dotted lines *j*, Fig. 3,) whereby the driver can raise the cutters over any obstruction or raise them to a vertical position for transporting the machine to or from the field.

To change this machine into a reaper it is only necessary to remove the two bolts *g* and the axial bolt *t*. This detaches the knee from the machine A and the cutter-bar and shoe from the knee. The bar P, Fig. 4, is then fixed to the frame by the same bolts *g*, as shown by the dotted lines P', Fig. 3, and the shoe and cutter-bar are secured to the bar P by the bolt *r*. This converts it into a rigid bar, and the carrier-wheel *w* is attached to the outer end of the cutter-bar. The bar P may be attached below the frame, as shown by the dotted lines, or above it, as circumstances may require. There is a stop (not shown in the drawings) to prevent the knife-bar from dropping out when the cutter-bar is raised.

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

1. The bed-frame A, constructed as shown and described, having the hangers *h* and *h'* for the support of the axial shaft S, and the lugs *f* and *f'* for the attachment of the reel-posts when the machine is to be used as a reaper.

2. The detachable knee-piece *k*, having the projecting hanger-arm *a* for the carrier-wheel *w*, and the stop *i*, all in the manners shown and for the purposes described.

C. R. BRINCKERHOFF.

Witnesses:

WM. S. LOUGHBOROUGH.

W. H. ROGERS.