

*A. & C. Sherwood,
Mower.*

No. 109062.

Patented Nov. 8 1870

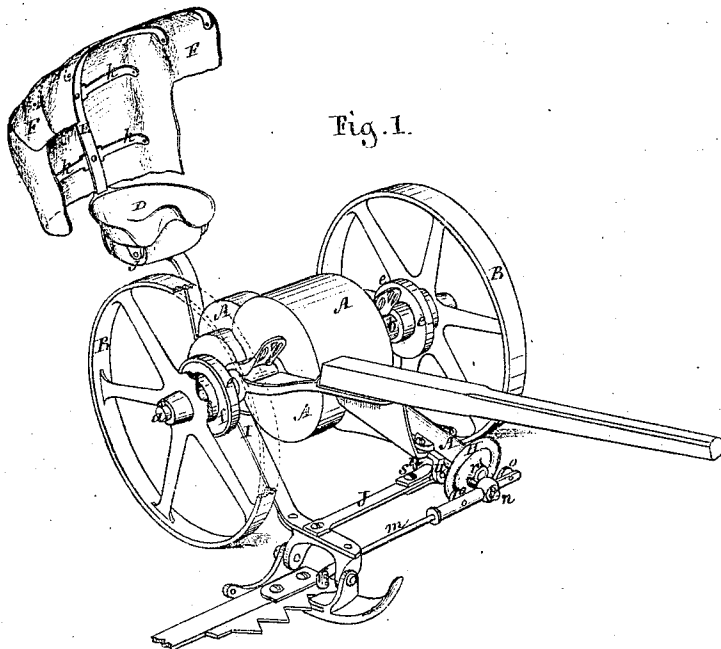


Fig. 1.

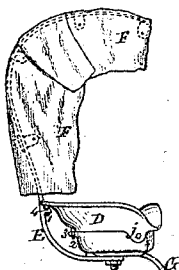


Fig. 2.

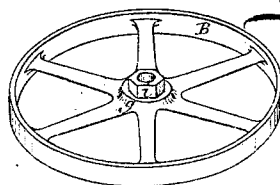
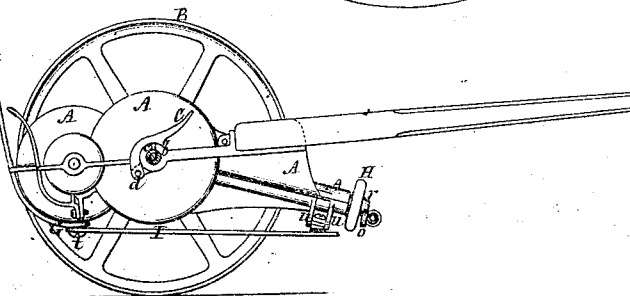


Fig. 3.



Witnesses.
Henry H. Lyggett
Edmund Masson.

Allen Sherwood and Clarence Sherwood,
By their attorney A. B. Stoughton.

UNITED STATES PATENT OFFICE.

ALLEN SHERWOOD AND CLARENCE SHERWOOD, OF AUBURN, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 109,062, dated November 8, 1870.

To all whom it may concern:

Be it known that we, ALLEN SHERWOOD and CLARENCE SHERWOOD, of Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Mowing-Machines; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents, in perspective, so much of a mowing-machine as will illustrate our invention. Fig. 2 represents a sectional elevation thereof. Fig. 3 represents the manner of attaching the ratchet-box and hub.

Similar letters of reference, where they occur in the separate figures, denote like parts of the machine in all of the drawings.

Our invention relates more particularly to mowing-machines, but may be used to a greater or lesser extent in reaping-machines; and consists, first, in hinging the feet-rests, so that they not only furnish a firm support for the driver, but also form a cover or protection to the oil-holes for the axle-bearings, and make them of ready and convenient access.

The invention further consists in the combination of devices for connecting, attaching, and fastening the driver's seat and the top that protects him from the sun.

The invention further consists in the combination of the rubber rolls with the pitman, to ease the pitman as it passes the crank dead-centers, and prevent the wear, as also the noise and clatter, of the cutters.

To enable others skilled in the art to make and use our invention, we will proceed to describe the same with reference to the drawings.

The gearing, shafts, and their appliances are arranged in a metallic case, A, which constitutes, to a great extent, the main frame of the machine, and are carried on or by the main axle *a*, which, in turn, is supported in the main carrying and driving wheels B, and the usual ratchet-and-pawl attachments between them, for the common and well-known purpose of moving together or separate from each other, as circumstances may require. On each side of the case there is cast or otherwise secured a boss, box, or bearing, *b*, through and by which the case is supported on the main axle, and in which bearings are made oil-holes *c*, Fig. 2, for oiling them.

To the under and outer side of the bosses *b*, as at *d*, are pivoted the feet-supports C C, so that, when thrown forward into proper position for supporting the driver, they shall cover and protect said oil-holes, and when thrown back make access to said oil-holes for lubricating the bearings quite convenient.

The bodies *e e* of the clutch-boxes are secured to the main axle *a*, and the covers *f* of said boxes are secured to the hubs *g* of the driving and supporting wheels B by means of a many-sided opening, *h*, through said covers, and correspondingly many-sided projections *i* on the hubs of said main wheels, which openings and projections are readily cast on the covers and hubs, and go together without dressing or filing, which key-seats, as commonly used, always require, as they will fill with metal in casting. The usual spring-pawl and ratchet are arranged in these boxes, one in or on the body, the other in or on the cover, and for the same purpose as commonly used on all such machines, and need no further description.

The driver's seat D is hinged at *j* to the under portion thereof, which may be a tool chest or box, and on said hinged seat D there are two studs, 1 2, which, when the seat is let down, as shown in the drawings, take into holes in two keepers, 3 4, one of which, 3, is cast or made on the under or box portion of the seat, and the other, 4, on the supporting-bar E, which forms a connection and tie or support between the top and bottom parts of the seat, and also between the seat and said supporting-bar E. The supporting-bar E is fastened to the under part of the seat, and extends upward and forward, so as to make a support for the ribs *k* and the cover F for protecting and shading the driver from rain or sunshine.

The seat is supported on a bar, G, fastened to the case or main frame A, which bar may be a continuation of the bar E, though better separated, so that, if not needed, the cover F may be removed without disturbing the seat.

On the pitman *m*, and on each side of where it is connected to the wrist *n* of the crank-wheel H, are placed rubber or other similarly elastic and durable rolls *o o*, which, as the pitman is about to pass the dead-centers of the crank-wheel, come against the hub or projection *r* of the crank-wheel, and not only pre-

vent the jar and clatter and wearing of the crank-connection, but cause the cutters to work smoothly and without noise.

The finger-bar and cutting apparatus are connected to the cast frame or box A through the medium of the bars, braces, or secondary frame I J, of which the one J is hinged by a horizontal joint at *s*, and the other at *t*, so that, if the frame should give way, the cutting apparatus, including the finger-bar, could swing around without tearing the ears *u* from the main frame.

Having thus fully described the parts and portions of the machine which we regard as of our invention, what we claim therein is—

1. The hinged feet-supports, when arranged to cover and uncover the oil-holes in the main frame-supports, as described and represented.

2. In combination with the driver's seat, when made of an upper hinged part and a

lower stationary part, and with a bar attached thereto for supporting a shield or cover, the studs 1 2 on said hinged part, and the holes or keepers 3 4, one in the seat portion and the other in said bar, for uniting and strengthening said portions, substantially as described.

3. In combination with the pitman and the wrist or crank-wheel projection *r*, the rubber or other elastic rolls *o o*, for preventing wear, noise, and clatter, when said rolls are arranged not to embrace, but are slightly distant from the wrist-pin, and are struck by said projection *r* in its rotation, as described and represented.

ALLEN SHERWOOD.
CLARENCE SHERWOOD.

Witnesses:

HORACE T. COOK,
C. H. WILLNER.