

B. SHOUP.
HARVESTER.

No. 179,228.

Patented June 27, 1876.

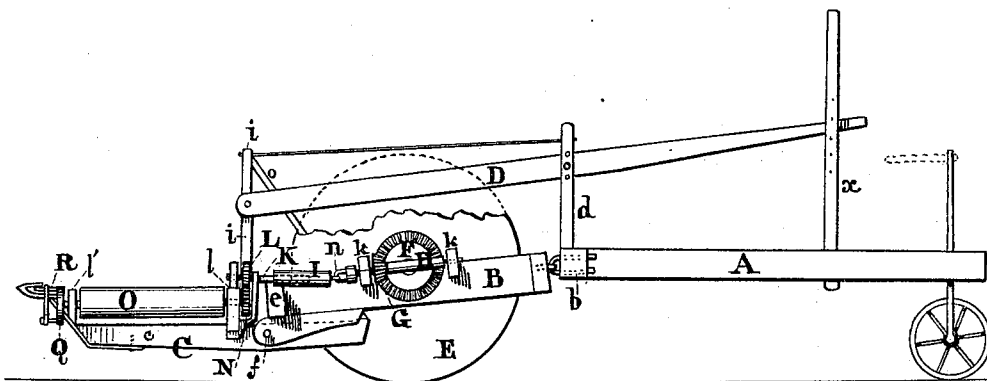


Fig. 1.

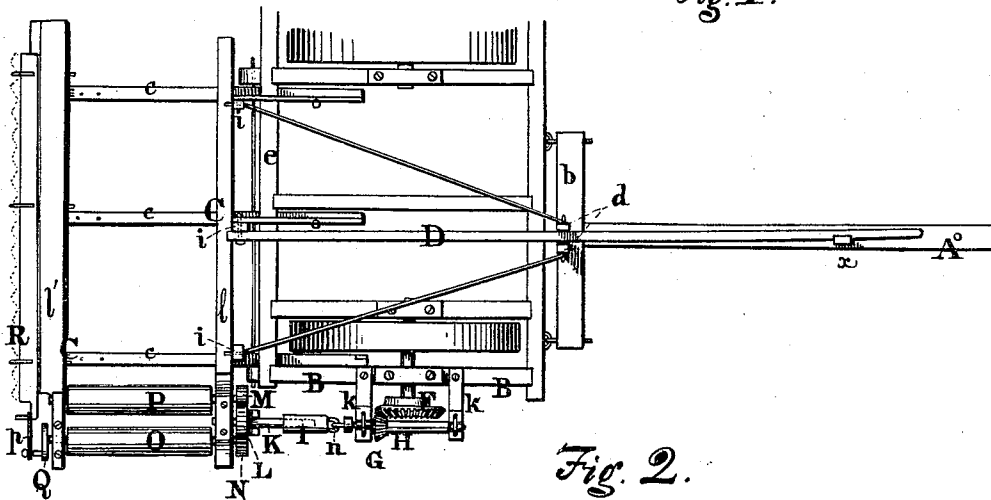


Fig. 2.

Witnesses
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his atty in fact

UNITED STATES PATENT OFFICE.

BENJAMIN SHOUP, OF PEKIN, ASSIGNOR OF ONE-HALF HIS RIGHT TO
ANDREW J. HODGES, OF PEORIA, ILLINOIS.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **179,228**, dated June 27, 1876; application filed
November 16, 1875.

To all whom it may concern:

Be it known that I, BENJAMIN SHOUP, of the city of Pekin, in the county of Tazewell, in the State of Illinois, have invented an Improvement in Harvesters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a longitudinal elevation; Fig. 2, a plan of the operating half of above.

My improvement consists in the use of a single lever for elevating or lowering the reaping-platform of harvesting machines, together with the sickle and carrier or draper, and in holding the same at required levels in reaping; also in rotating the draper and vibrating the sickle-bar by direct gearing with a crown or bevel wheel on the axle of the nearest supporting-wheel of the machine.

The first part of the improvement is carried out by erecting a post on the rear bar of the reaping-platform, which is hinged to the front bar of the wheel-frame, (a not novel form of connection,) the latter being also hinged to the transverse terminal bar of the draft-tongue of the machine, (also a common form of connection.) To said post a lever is pivoted, which extends back to and is pivoted on a second vertical post erected upon said transverse tongue-bar, so that a depression of the rear end of the lever raises or lowers the reaping-platform—at the same time, when set in a detent, maintains the rigidity between the platform, wheel-frame, and tongue.

In the drawings, which represent one of the forms in which I carry out my improvement, A represents the harvester-tongue, terminating, as usual, at the wheel-frame B, in the cross-bar *b*, hinged, as usual, to said wheel-frame, upon which bar *b* (or the tongue) is erected the post *d*, to which the lever D is pivoted, hereafter described. Behind this rises a detent, *x*, for the handle of said lever. B represents the wheel-frame, of the usual construction, in which the supporting-wheels E are set. On the front bar *e* of this frame

the usual hinge *f* connects the same with the reaping-platform C.

From the rear bar of the platform C rises a vertical post, *i*, to which the front end of the lever D is pivoted. There are several other similar posts, *i*, rising from said bar *l*, all of which may be braced by diagonally-descending rods to rear extensions of the joints of the platform C, and the top of the same by rods to the post *d* on the tongue A *b*. D, the platform-operating lever, pivoted, as before said, in front to the post *i* of the platform C, and behind to the post *d* of the tongue, and is adjustably detained by a post, *x*, having notched or movable pin; F, the bevel-wheel at the end of the axle of one of the supporting-wheels; G, its engaged pinion, set upon a horizontal shaft, H, supported by arms *k k*, projecting from the frame B. I is a short connecting swivel-shaft, attached to the shaft H by universal joint *n*, and to the shaft K of the pinion L by a socketed connection, for the purpose of maintaining a working attachment between the wheel F and said pinion L, which rotates the apron-rollers O P, when the level of the reaping-platform and sickle is altered.

The shaft L is journaled in the rear bar *l* of the said platform, to allow its pinion K to engage with the apron-pinions M N of the rollers O P beneath. Q, a disk and wrist-pin at the forward end of the apron-roller O, which, by means of a rod, *p*, vibrates the sickle-bar R, though this connection may be made from the other roller with equal effect. S represents the reel-supporters.

What I claim as my invention is—

1. The horizontal platform-operating lever D, with its pivotal post *i* rising from the reaping-platform, and its second pivotal post, *d*, rising from the tongue A or its cross-piece *b*, substantially as and for the purposes described.

2. The combination, with the platform C, of the pivotal post *i*, lever D, pivotal post *d*, attached to the tongue A or its cross-bar *b*, said lever being provided with detent *x* upon the tongue A, substantially as and for the purposes described.

3. The harvesting-machine provided with

bevel-wheel F, shaft H, pinion G, swivel-joint *n*, socketed shaft I, pinion-shaft K, pinion L, and apron-roller pinions M N, crank Q, and connecting-rod *p* to sickle, arranged and operating substantially as and for the purposes described.

In testimony that I claim the foregoing im-

provement in harvesters I have hereunto set my hand this 30th day of September, A. D. 1875.

BENJAMIN SHOUP.

Witnesses:

H. P. WILBER,
WM. DON MAUS.