P. HOWELL.

HARVESTER CUTTER.

No. 170,565. Patented Nov. 30, 1875.

Fig. 1

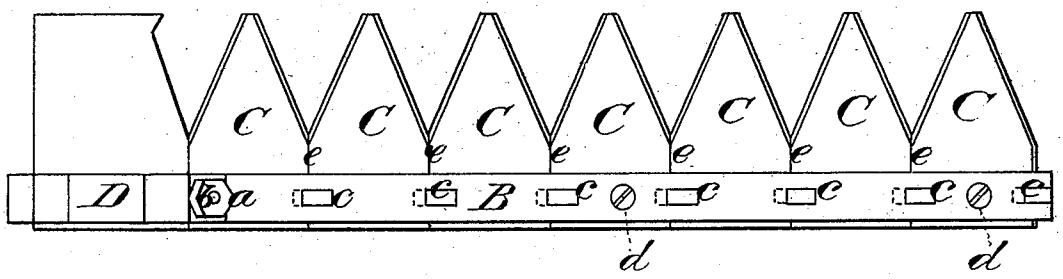


Fig. 2

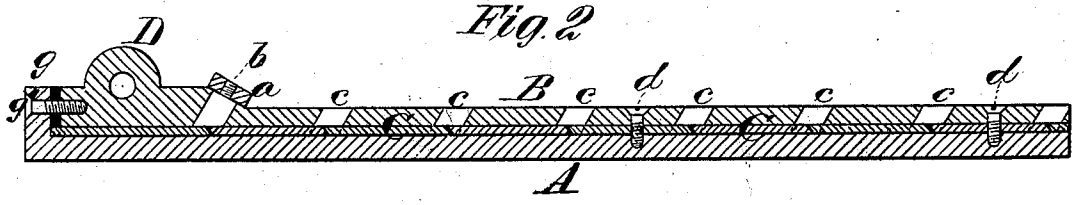
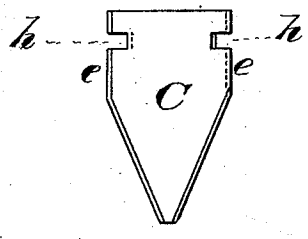


Fig. 3



WITNESSES

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PHILIP HOWELL, OF BUENA VISTA, PENNSYLVANIA.

IMPROVEMENT IN HARVESTER-CUTTERS.

Specification forming part of Letters Patent No. **170,565**, dated November 30, 1875; application filed October 2, 1875.

To all whom it may concern:

Be it known that I, PHILIP HOWELL, of Buena Vista, in the county of Allegheny and State of Pennsylvania, have invented a new and valuable Improvement in Reaper-Knife; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my reaper-knife, and Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a detail view, showing a sickle-blade.

This invention has relation to sickles for reaping and mowing machines; and the nature of my invention consists in providing a means for rigidly securing the sickle-blades to the sickle-bar, and at the same time affording great facility for removing the blades when it is desired to sharpen them, as will be hereinafter explained.

In the annexed drawing, A designates a sickle-bar, from which rises a number of inclined lugs, *c*, all of which incline toward the outer end of said bar, and are of sufficient length to pass through notches *h h* made in the straight beveled edges *e e* of the sickle-blades C, and also through a locking-bar, B, which covers the rear portions of these blades. The inner end of the sickle-bar A is turned up, as shown at *g*, and a screw, *g'*, is passed freely through it, which screw is tapped into the enlarged end D of the locking-bar B, and is designed for drawing this bar forcibly down upon the sickle-blades C. The straight edges *e* of the blades C are beveled in such manner that these edges overlap, as shown in Fig. 2, so that the edge of one plate or blade presses upon and locks down the edge of the adjacent blade.

In addition to the adjustable fastening *g'*, I use a nut and screw-fastening, *a b*, and also screw-fastenings *d d*, which afford a rigid security for all of the sickle-blades.

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

1. In combination with the bar A, constructed with inclined lugs *c*, the locking-bar B and blades C, substantially as described.

2. The adjusting-screw *g'* and fastenings *a b d*, combined with the bars A B, substantially in the manner and for the purposes described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

PHILIP HOWELL.

Witnesses:
FRANK PATTERSON,
GEO. M. COLLINS.