

F. R. & W. O. SUTTON.
Harvester-Cutters.

No. 157,705.

Patented Dec. 15, 1874.

Fig. 1.

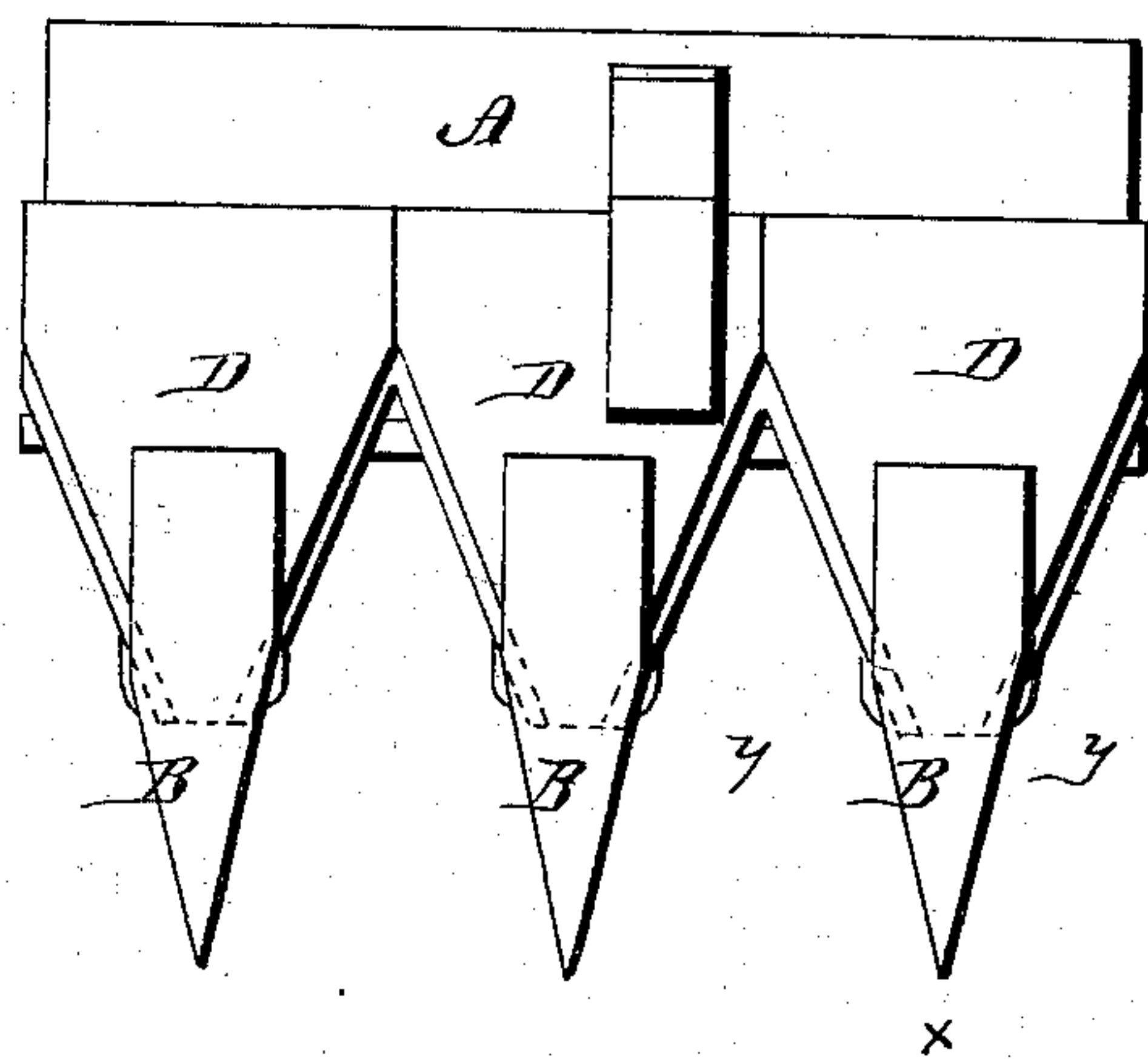


Fig. 2.

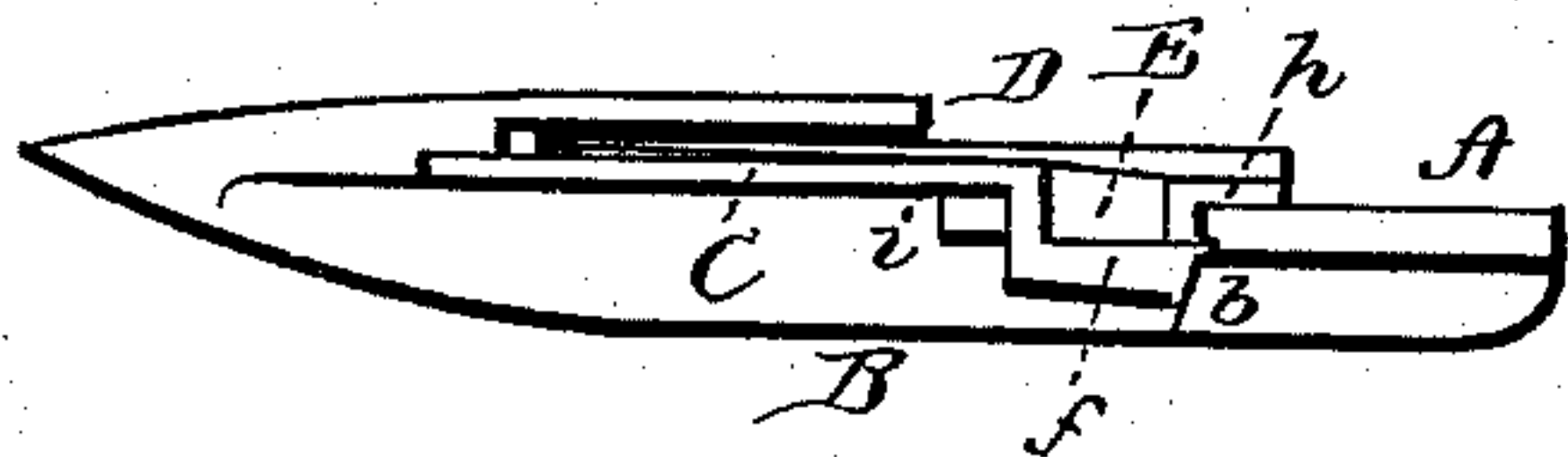


Fig. 3.

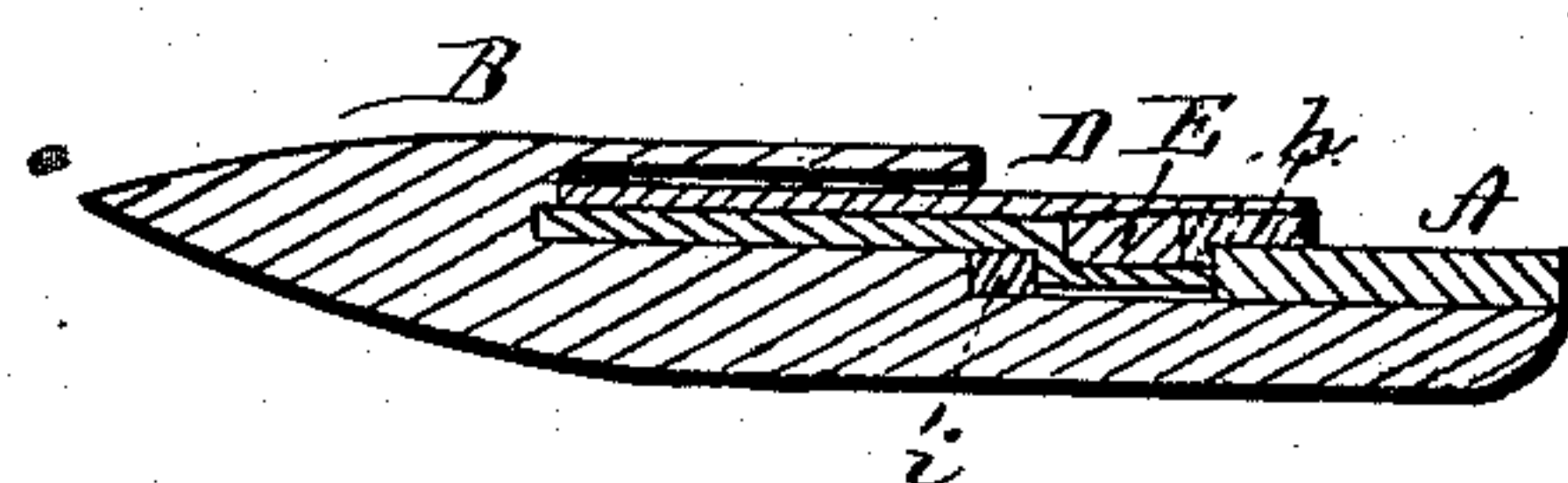


Fig. 5.

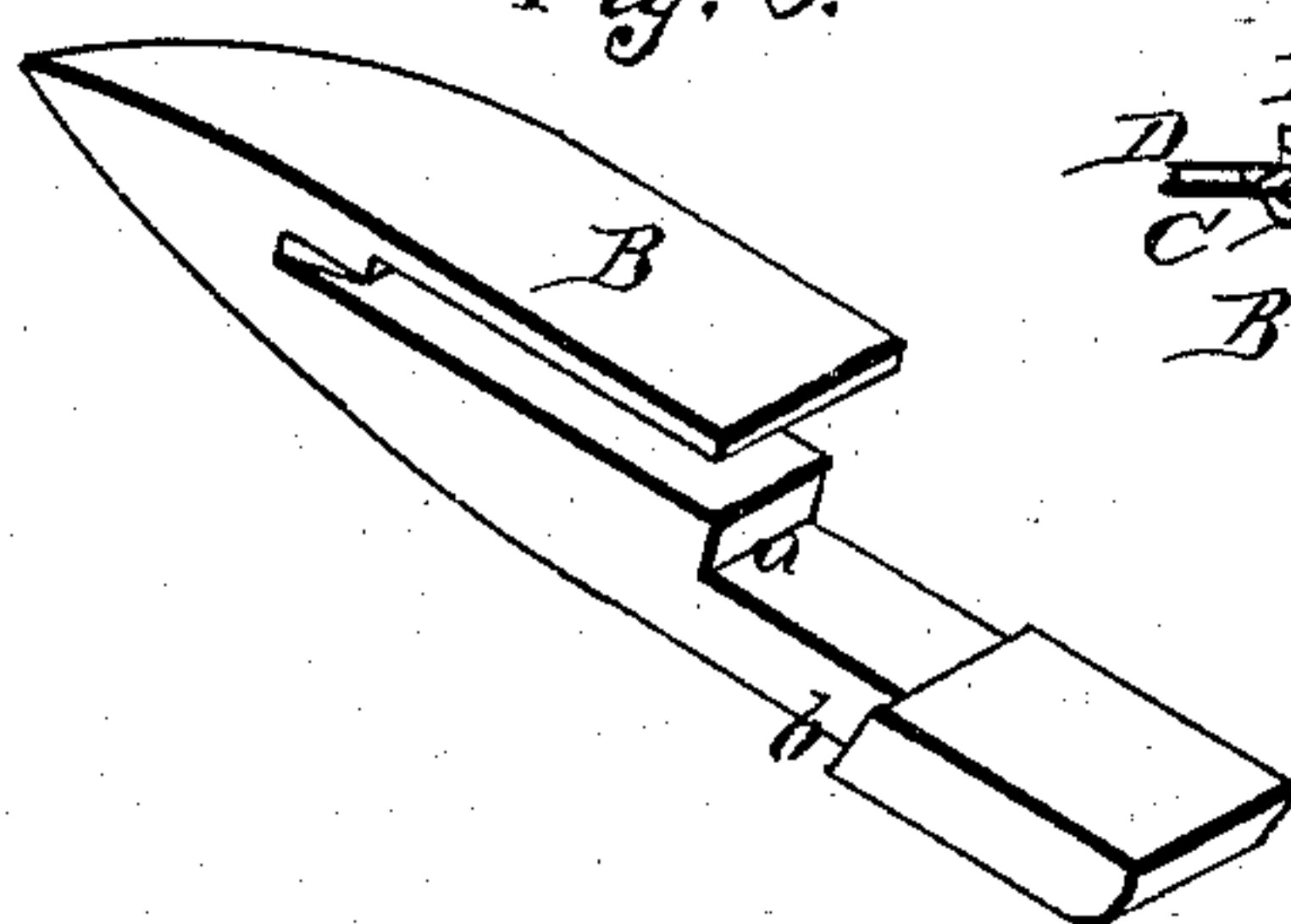


Fig. 4.

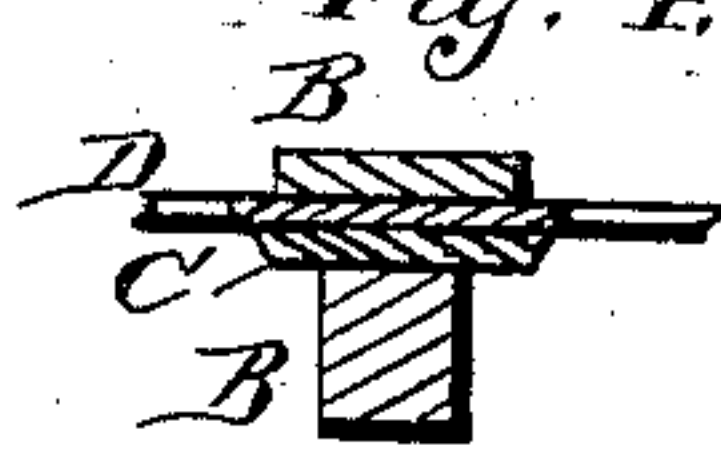
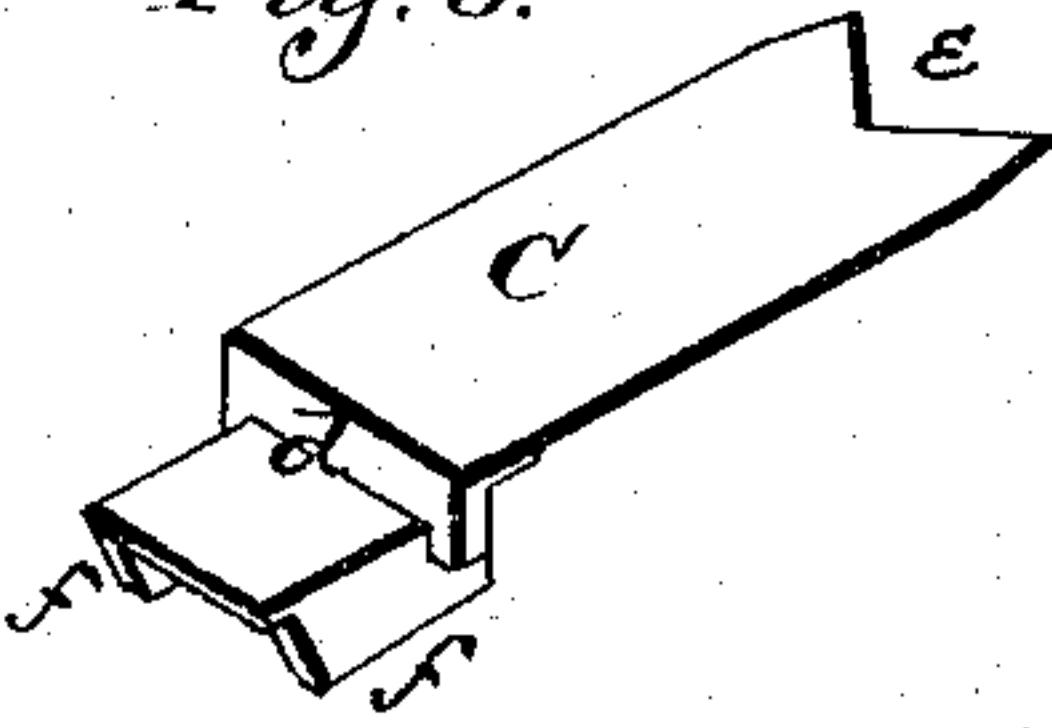


Fig. 6.



WITNESSES.

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FREDERICK R. SUTTON AND WILLIAM O. SUTTON, OF WELLINGTON, ILL.

IMPROVEMENT IN HARVESTER-CUTTERS.

Specification forming part of Letters Patent No. 157,705, dated December 15, 1874; application filed May 16, 1874.

To all whom it may concern:

Be it known that we, FREDERICK R. SUTTON and WILLIAM O. SUTTON, of Wellington, in the county of Iroquois and in the State of Illinois, have invented certain new and useful Improvements in Cutter-Bar for Reapers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in certain improvements upon the harvester-cutter for which Letters Patent No. 141,298 were granted to us July 29, 1873, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and Fig. 2 a side view, of our cutter-bar. Fig. 3 is a longitudinal section of one of the fingers through the line *x x*, Fig. 1. Fig. 4 is a transverse section of the same through the line *y y*, Fig. 1. Fig. 5 is a perspective view of one of the fingers; and Fig. 6 is a perspective view of one of the leger-plates.

A represents the finger-bar, to which the guards or fingers B B are permanently attached. These guards are constructed substantially in the same manner as those generally in use with a horizontal slot for the reception of the leger-plates and the passage of the cutters; but the tops of the guards are made considerably wider than the bottom parts, as shown in Figs. 4 and 5, whereby the grass, hay, or grain is held straight for the sickle to cut, and enables the sickle to cut better and easier, without leaving any of the grass, hay, or grain standing. In the guard B is a shoulder or offset, *a*, on a vertical line with the rear end of the top part of the guard; and on each side of the guard, a trifle in front of the finger-bar, is an inclined shoulder or offset, *b*. C represents the leger-plate,

placed in the slot on the guard, and resting thereon. The front end of the plate C has a notch, *e*, fitting over a projection in the front end of the slot in the finger. The leger-plate has a shoulder or offset, *d*, corresponding with and in rear of the offset *a* on the finger; and in rear of the shoulder *d* are downwardly-projecting flanges *f f*, which fit over the sides of the guard, and their rear edges fit against the inclined shoulders *b b*.

The leger-plates are held in place by an L-shaped bar, *h*, fitting over the front edge of the finger-bar A, and fastened on top thereof by suitable screws or bolts.

By making the bar *h* angular, to cover the corner of the finger-bar A, the wear of the cutters and cutter-bar is entirely removed from the finger-bar, and placed upon said angular bar, so that, when this bar becomes too much worn, it only needs to be replaced with a new one, while in our former patent part of the wear was on the finger-bar itself.

D D represent the knives or cutters, which are secured to the cutter-bar E. This cutter-bar is placed and runs on the rear parts of the leger-plates C C, between the shoulders *d* and the angular fastening-bar *h*.

Through the spaces left between the shoulders *a* of the guards and the shoulders *d* of the leger-plates runs a bar, *i*, which may be slightly wedge-shaped, so as to fasten and hold the leger-plates firmly in their places. This bar is located, as shown in Fig. 1, a little in advance of the rear corners of the cutters, and forms a stop for the hay, grass, or grain, to prevent the same from clogging the knives.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the fingers B and leger-plates C, with the bar *i* passing between the shoulders *a* and *d* of the guards and leger-plates, respectively, substantially as and for the purposes herein set forth.

2. The finger or guard B, provided with vertical shoulder *a* and inclined side shoulders *b*, in combination with the leger-plate

C, provided with vertical shoulder *d* and side flanges *f*, fitting against the inclined shoulder *b*, substantially as herein set forth.

3. The combination of the guard B with shoulders *a* and *b*, the leger-plate C with shoulder *d* and flanges *f f*, the bar *i*, and the angular bar *h*, all constructed substantially as and for the purposes set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 17th day of April, 1874.

FREDERICK R. SUTTON.

WILLIAM O. SUTTON.

Witnesses:

GEO. GOOD,
AMOS BESSE.