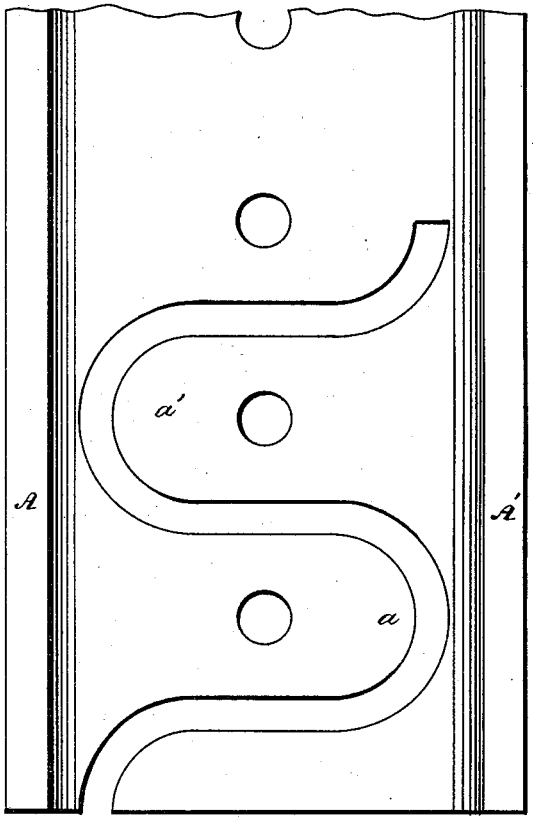
2 Sheets--Sheet 1.

R. DUTTON.

Harvester-Cutter.

No. 164,434. Patented June 15, 1875.

Fig: 1.



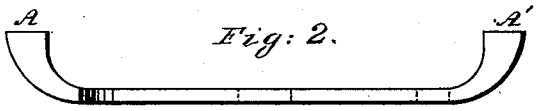


Fig: 2.

Witnesses:
H. H. Young
E. L. Davidson

Inventor:
Rufus Dutton
by his Attorney
Wm. D. Baldwin

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

2 Sheets--Sheet 2.

R. DUTTON.

Harvester-Cutter.

No. 164,434. Patented June 15, 1875.

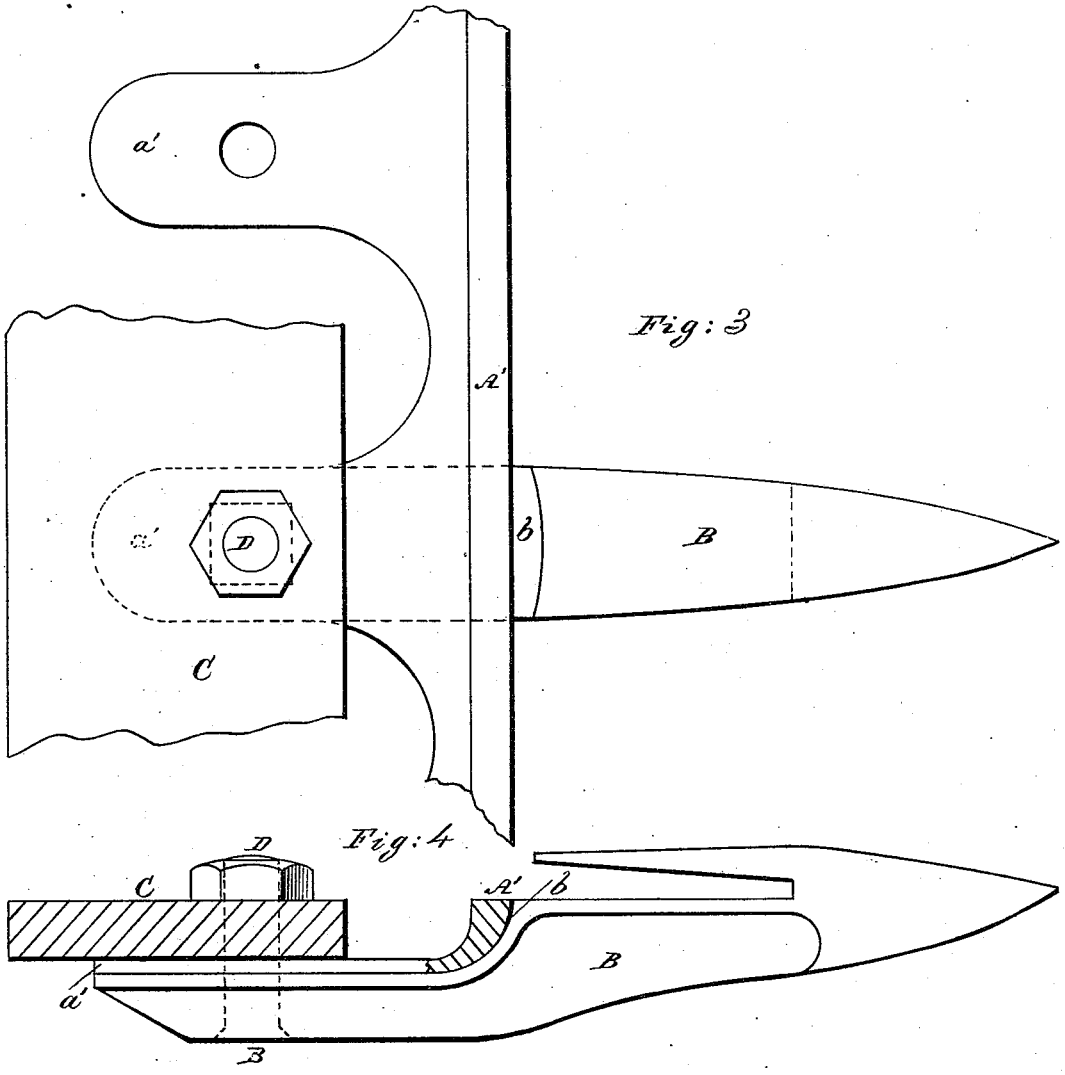


Fig: 3

Fig: 4

Witnesses:
H. H. Young
E. L. Davidson

Inventor:
Rufus Dutton
by his Attorney
Wm. D. Baldwin

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

RUFUS DUTTON, OF YONKERS, NEW YORK.

IMPROVEMENT IN HARVESTER-CUTTERS.

Specification forming part of Letters Patent No. **164,434**, dated June 15, 1875; application filed November 13, 1874.

To all whom it may concern:

Be it known that I, RUFUS DUTTON, of Yonkers, in the county of Westchester and State of New York, have invented a new and useful Improvement in Harvester Cutting Apparatus, of which the following is a specification:

My invention relates to the cross-bar which connects the guard-fingers in front of the cutter-bar or knife-back; its objects are to make such cross-bars economically, and to secure a firm and solid connection between the finger-beam, guard-finger, and cross-bar. These ends I attain by rolling out a trough-shaped blank or plate of the length of the cross-bar, and stamping or severing each blank, so that it is longitudinally divided into two cross bars or plates, provided with a series of projecting points or teeth, corresponding with the guard-fingers, which teeth are interposed between the finger-beam and guard-finger, and all securely clamped together by through-bolts or rivets. The subject-matter claimed is hereinafter designated.

In the accompanying drawings, Figure 1 represents a plan view of a blank partially severed, and Fig. 2 a vertical transverse section therethrough. Fig. 3 represents a plan view of a portion of the finger-beam, and of the cross bar or plate and one of the guard-fingers. Fig. 4 represents a view of the same parts, partly in section.

A trough-shaped blank of the length of the finger-bar is rolled out by well-known means, and divided longitudinally by stamping or cutting in usual ways into two cross bars or plates, A A′, forming counterparts of each other, and provided with teeth *a*, the spaces between which correspond with the teeth *a′* of the opposite cross bar or plate, thus securing the greatest possible economy of the material. The cross bars or plates are, by preference, thickened at their forward edge, and rounded on the under surface thereof, in order that they may fit snugly against the shoulders *b* of the guard-fingers B, which, being by preference of forged metal, can be more advantageously manufactured with rounded than with square shoulders. The teeth of the cross bar or plate project rearwardly, and lie upon the top of the guard-finger, and the finger-beam C is laid upon the cross bar or plate, and all three are securely fastened together by bolts or rivets D, in the usual way.

I claim as of my own invention—

1. A cross-bar constructed with rearwardly-projecting teeth, as herein set forth, and adapted to conform to the shoulders of the guard-fingers.

2. The combination, substantially as hereinbefore set forth, of the finger-beam, the guard-fingers, the cross-bar, having rearwardly-extending teeth, and the clamp bolts or rivets passing through said teeth, finger-bar, and guard-fingers.

In testimony whereof I have hereunto subscribed my name.

RUFUS DUTTON.

Witnesses:

WM. J. PEYTON,

JOSEPH I. PEYTON.