

(No Model.)

2 Sheets—Sheet 1.

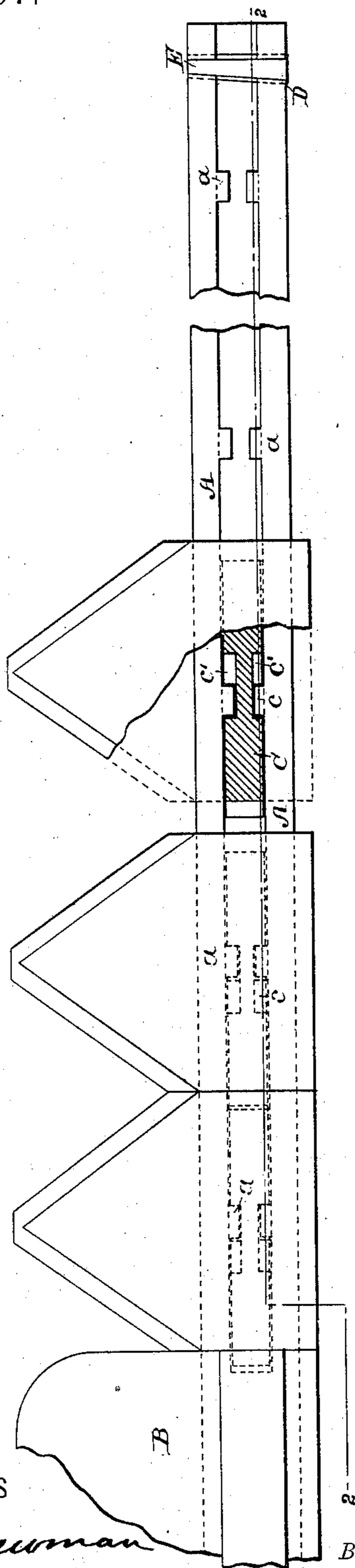
J. B. BEAM.

CUTTER BAR FOR HARVESTING MACHINES.

No. 366,197.

Patented July 12, 1887.

Fig. 1.



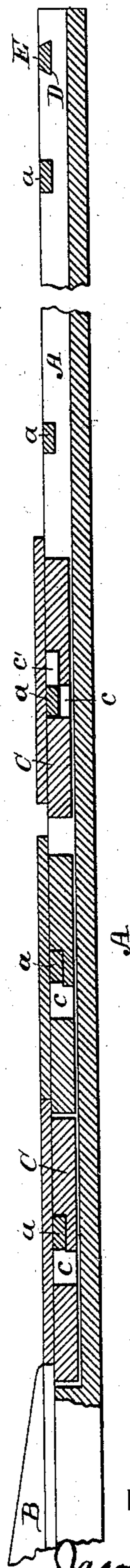
WITNESSES

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E. M. Newman.

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Fig. 2.



INVENTOR

Jacob B. Beam

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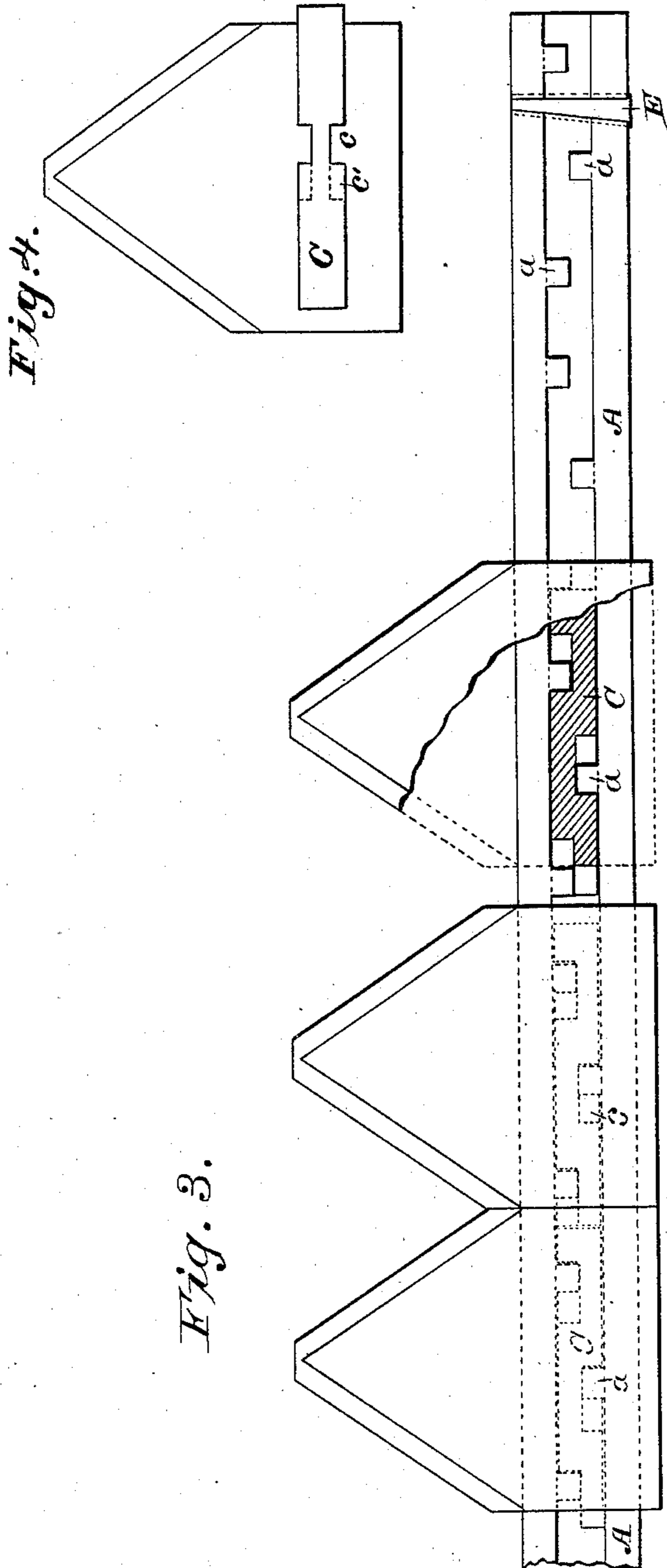
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UNITED STATES PATENT OFFICE.

JACOB B. BEAM, OF CLOUSER, PENNSYLVANIA.

CUTTER-BAR FOR HARVESTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 366,197, dated July 12, 1887.

Application filed February 24, 1887. Serial No. 228,739. (No model.)

To all whom it may concern:

Be it known that I, JACOB B. BEAM, of Clouser, in the county of Jefferson and State of Pennsylvania, have invented certain new and useful Improvements in Cutter-Bars for Harvesting-Machines, of which the following is a specification.

The object of my invention is to improve the construction of that class of harvester cutter-bars in which the cutters are each mounted upon a removable block.

By means of my improvements I am enabled to make the parts light and strong and readily removable, so that the cutters may be ground or replaced when desired.

In the accompanying drawings, Figure 1 is a plan view, partly in section; Fig. 2, a longitudinal vertical section on line 2 2 of Fig. 1; Fig. 3, a plan view, partly in section, showing a modified construction; and Fig. 4 is a view of the under side of one of the cutters.

The cutter-bar A is formed with a longitudinal recess in its upper face, and at suitable intervals lugs *a* are arranged in the side walls of this recess opposite each other for the purpose of locking the cutters in place, as presently appears. Upon the inner end of the cutter-bar an ordinary heel-plate, B, for the pitman-connection is provided, the plate being screwed or riveted to the end of the bar in the usual manner. On the under face of each cutter is secured a transverse bar, C, which projects slightly beyond the edge of the cutter on the side toward the heel-plate, and on the other side does not reach to the edge of the cutter. This bar has L-shaped recesses in its side faces, through the vertical portions *c* of which the lugs *a* pass when the cutters are dropped into place on the bar, and when the cutters are moved laterally toward the heel-plate the lugs pass into the horizontal portions *c'* of the recesses, thus forming a bayonet-joint or interlocking connection. The end of the transverse bar C on the cutter next to the heel-plate passes under the heel-plate when the cutter is moved laterally, and in the same manner the projecting ends of the transverse bars on the other cutters pass under the adjoining cutters. By this construction a very light, firm, and compact structure is provided. At the outer or divider end of the cutter-bar a transverse dovetailed re-

cess, D, is formed in the upper face of the bar. The outer wall of this recess is formed at right angles to the cutter-bar, while the inner wall, or that nearest the heel-plate, is inclined. A correspondingly-shaped locking-pin or wedge, E, fits in this groove and also passes through apertures in the transverse bar C in the under face of the outer cutter. When all the cutters are placed in position on the bar, the driving of the wedge or locking-pin into position keys them all up tightly and locks them in position.

In Fig. 3 I have shown each cutter secured to the bar by three interlocking bayonet-joint connections. Preferably, in this construction the lugs *a* on the opposite sides of the recess in the bar are arranged alternately with reference to each other.

I claim as my invention—

1. The combination of the cutter-bar having a longitudinal recess in its upper face, the cutter, and an interlocking connection between the cutter and bar formed by an L-shaped recess, *c c'*, and a lug, *a*, substantially as set forth.

2. The combination of the cutter-bar formed with a longitudinal socket in its upper face, the locking-lugs, the cutters, the transverse bars on the under faces of the cutters, having the L-shaped recesses and projecting beyond the edges of the cutters toward the heel-plate, and a locking device at the outer end of the cutter-bar for securing the last cutter.

3. The combination of the cutter-bar formed with a longitudinal socket in its upper face, the locking-lugs, the cutters, the transverse bars on the under faces of the cutters, having the L-shaped recesses and projecting beyond the edges of the cutters toward the heel-plate, and the inclined wedge near the outer end of the cutter-bar, which fits in a longitudinal dovetailed recess in the upper face of the cutter-bar and passes through the transverse bar C on the outer cutter, substantially as set forth.

In testimony whereof I have hereunto subscribed my name.

JACOB B. BEAM.

Witnesses:

CHRIST. MILLER,
LOU PAULETTE.