

(No Model.)

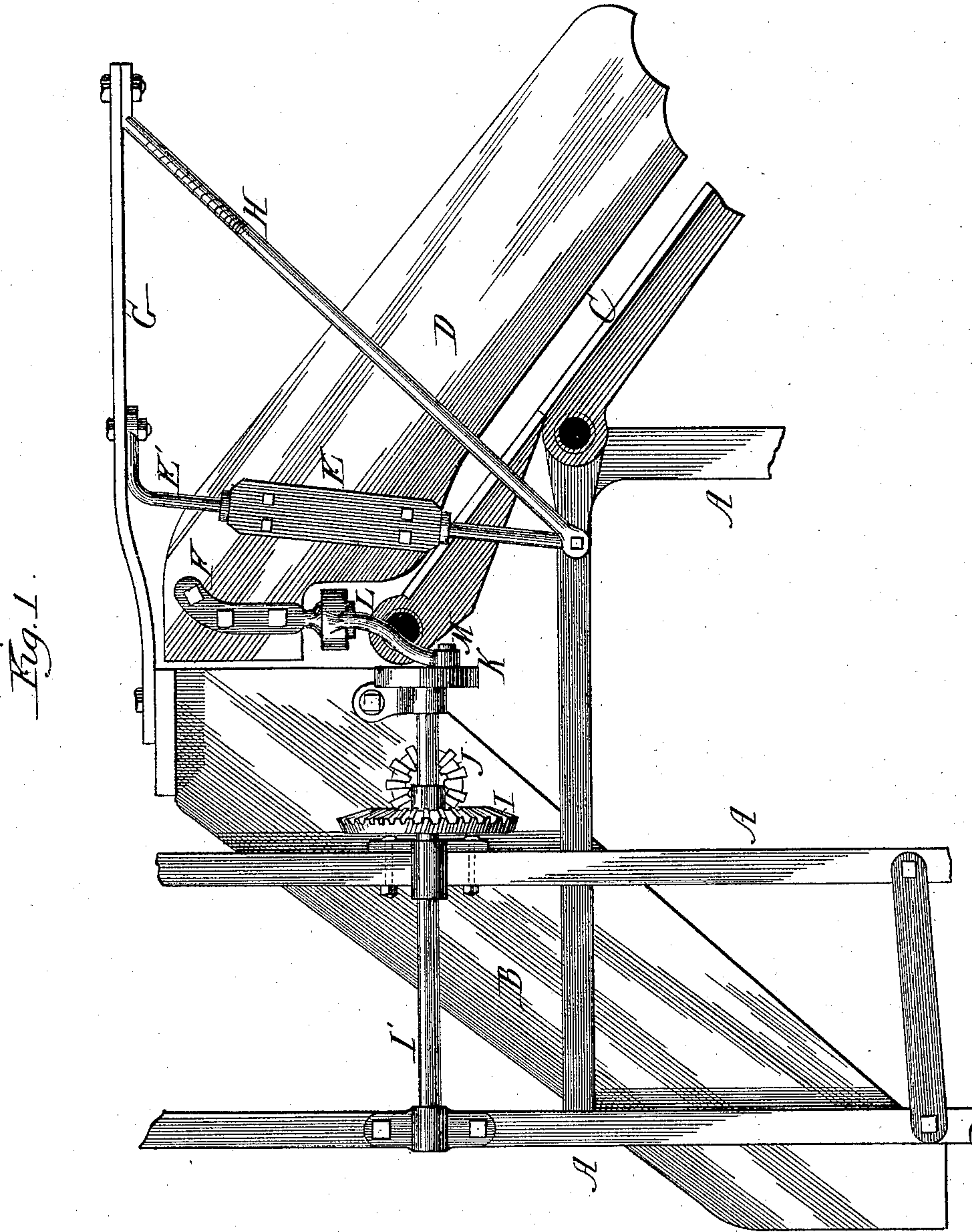
2 Sheets—Sheet 1.

C. H. SALZMAN.

BUTTING BOARD FOR HARVESTERS.

No. 369,741.

Patented Sept. 13, 1887.



Witnesses:  
*Albert H. Adams.*  
*Harry T. Jones.*

Inventor:  
*Christopher H. Salzman*

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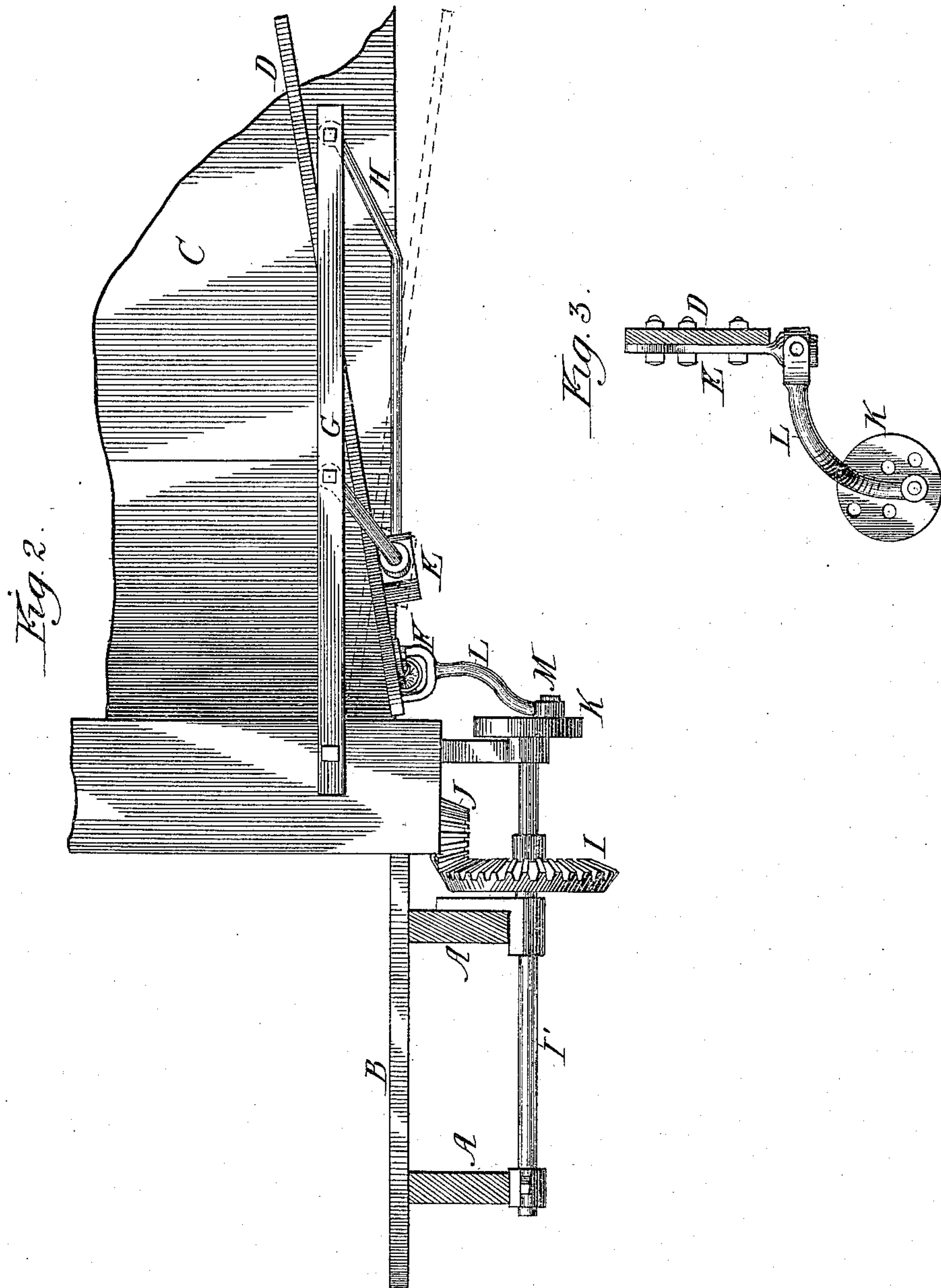
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# UNITED STATES PATENT OFFICE.

CHRISTIAN H. SALZMAN, OF CHICAGO, ILLINOIS.

## BUTTING-BOARD FOR HARVESTERS.

SPECIFICATION forming part of Letters Patent No. 369,741, dated September 13, 1887.

Application filed June 19, 1886. Serial No. 205,669. (No model.)

*To all whom it may concern:*

Be it known that I, CHRISTIAN H. SALZMAN, residing at Chicago, in the county of Cook and State of Illinois, and a citizen of the United States, have invented certain new and useful Improvements in Butting-Boards for Harvesters, of which the following is a full description, reference being had to the accompanying drawings, in which—

10 Figure 1 is a side elevation of a harvester-elevator and receiving or binding table with my improvement added. Fig. 2 is a top or plan view of one end of a binding-table; Fig. 3, a detail.

15 The object of this invention is to even the butts of grain before it is gathered into a compressor or under the binding-arm to form a bundle; and its nature consists in providing the binding-table with a vibrating or butting board which shall come in contact with and even the butts of the stream of cut grain which is flowing into a compressor or gatherer, or before it has been compressed in any manner, the various parts being constructed and combined as hereinafter set forth and claimed.

25 In the drawings, A indicates the elevator-frame of a harvesting-machine; B, the front side board of the elevator; C, the binding platform or table; D, the pivoted butting-board; E, box or socket; E', rod or spindle; F, plate or bar for attaching the vibrator; G H, supports for the butting-board; I', shaft; I J, bevel-wheels for operating the upper elevator shaft or roller; K, crank or pitman wheel; L, pitman; M, wrist-pin.

35 The frame-work A, the elevator, and the binding-platform are made in any of the well-known or usual forms, and to the binding-platform I add or apply the butting-board D, which is made in the form shown or in any other suitable form, and is applied by adding the frame G H and the bearing-rod E' to the front edge of the platform. The butting-board is supported upon the bearing-rod E' by means of the box or socket E, which I have made of sufficient length to furnish a full support for the board, and it is made to fit between bearing-collars on the rod E', and it may be made in vertical halves, which are bolted together by the same bolts which attach the board to it, or two short boxes or bearings may be used in the place of the

long one shown; and I do not limit myself to the form or method shown of attaching the rod E', as this may be varied to suit different constructions of frame. This swinging pivot for the board D is placed a little distance from its upper end, or in about the position shown, which gives the proper movement of the inner end without throwing the outer or lower end of the butting-board too far, said pivot being so located as to give the ends of the board opposite movements.

The strap F is attached to the inner or upper end of the butting-board, and it is provided with a pin, to which one end of the pitman L is attached, and it may be held by a pin or nut, as may be most convenient.

The end of the shaft I', which is used to drive the upper roller of the elevator, has its end provided with a disk or crank, K, the disk form being preferred, as it may be provided with holes for the wrist-pin at varying distances from the center of the disk, as shown at Fig. 3, so that the butting-board may be given more or less throw, as desired, the hole nearest the center giving the minimum and the outer hole the maximum throw. If the crank form is used, an extensible pitman may be applied to produce the same variations of movement.

80 This butting device can be easily applied to the various forms of harvesters in use, and its operation will readily be understood from the description and drawings. It will be seen that when the upper end is at its inmost position, as shown in Fig. 2, the end of the butting-board is in position to come in contact with the flowing stream of grain raised by the elevator; but as the movements of the board are quite rapid, this does not seriously interfere with or obstruct the flow of the grain, and as the grain is free and loose at this point, this movement of the upper end of the board adds materially to the straightening up of the grain, as the projecting straws are easily driven back when in this position, and they are driven back by a succession of light quick blows, which is more effective than any pressure which can be had by means of the butts sliding against an inclined board. It will also be understood that this board is not used for the purpose of so deflecting the grain as to bring



different lengths of grain to position for encircling the gavel with a cord, wire, or other band, but is used for the purpose of evening up the butts, so as to form a more perfect bundle when bound.

I am aware that boards and frames carrying a traveling canvas have been hinged to a binding-platform at their extreme upper ends, so as to deliver the grain properly to an automatic binder, and I do not, therefore, broadly claim the application of a hinged board to a binding-platform; but

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

1. The combination of the binding platform or table, the butting board D, the box or bearing E, secured to said board intermediate its ends, the supports G H, the rod or spindle E', passed through the bearing E and secured to said supports, and means for actuating the

butting-board at its upper end, whereby said board is rocked on its pivot and its ends have opposite inward and outward movements, substantially as specified.

2. The combination of the binding platform or table, the butting-board D, the box or bearing E, secured to said board intermediate its ends, the spindle E', passed through the bearing E, the supports G H, the plate or bar F, attached to the upper end of the butting-board, the shaft I', the crank or disk K, and the pitman L, whereby the butting-board is rocked on its pivot and its ends have opposite inward and outward movements, substantially as described.

CHRISTIAN H. SALZMAN.

Witnesses:

ALBERT H. ADAMS,  
HARRY T. JONES.