

(No Model.)

O. D. MOWRER.
CORNSTALK SHOCKER.

2 Sheets—Sheet 1.

No. 505,225.

Patented Sept. 19, 1893.

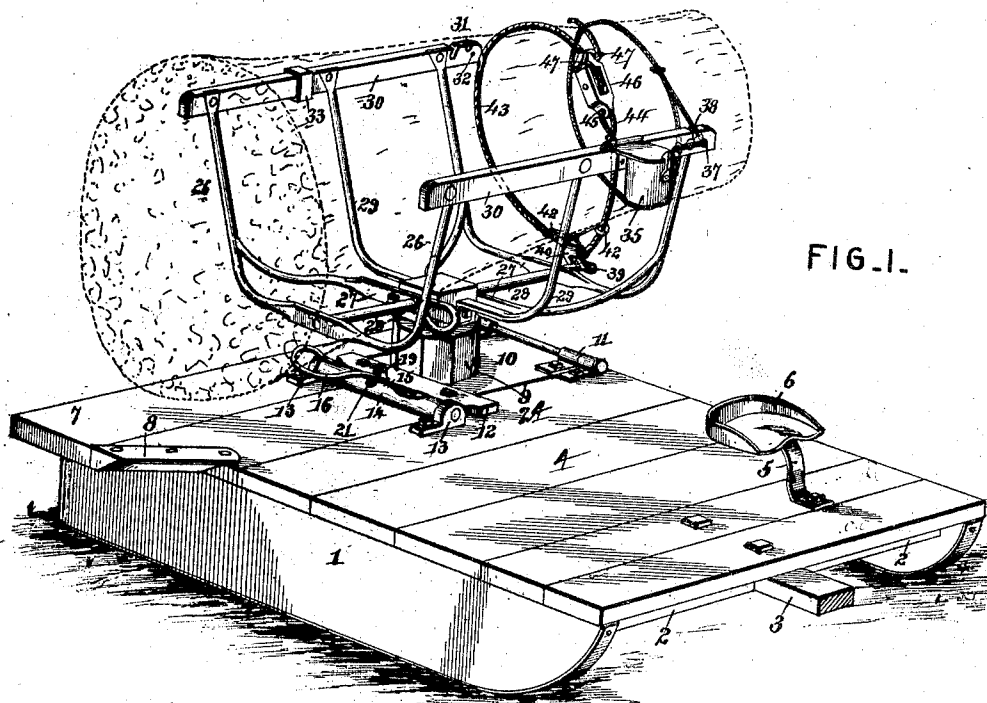
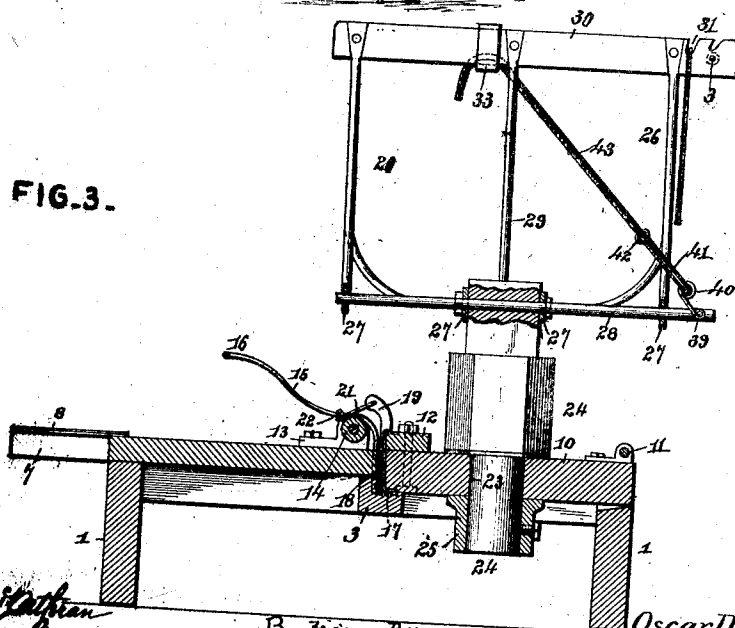


FIG. 1.

FIG. 3.



Witnesses

James H. McLaughlin
J. K. Siggas,

By his Attorneys,

Inventor

Oscar D. Mowrer

Cañon & Co.

(No Model.)

2 Sheets—Sheet 2.

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FIG. 2.

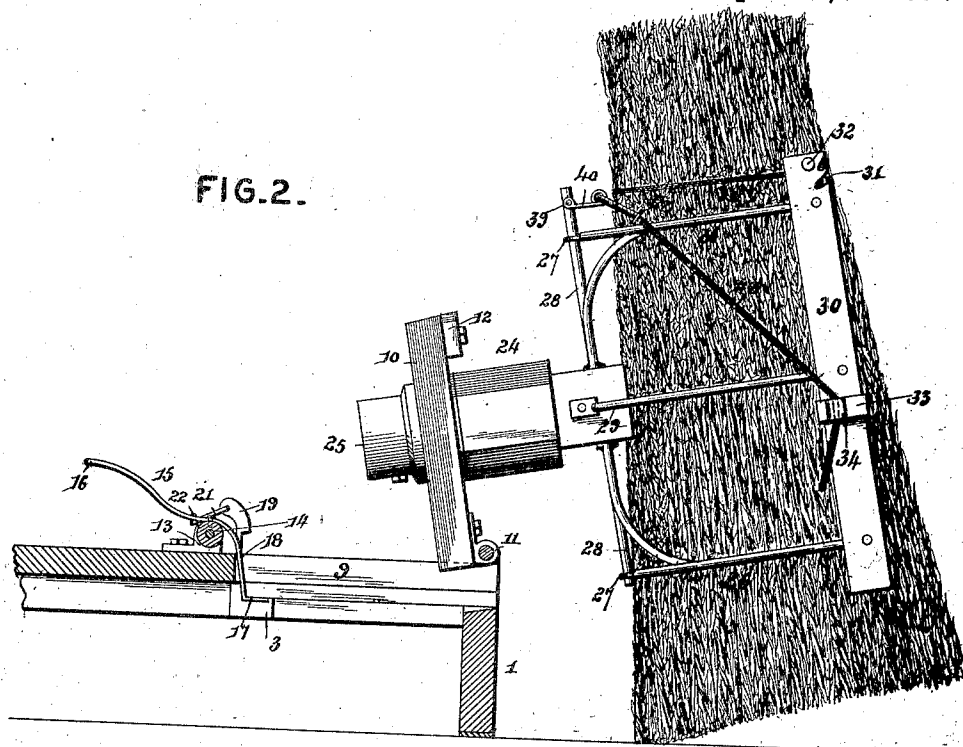


FIG. 4.

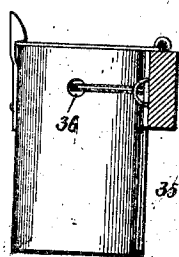


FIG. 5.

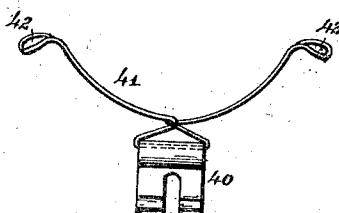


FIG. 6.

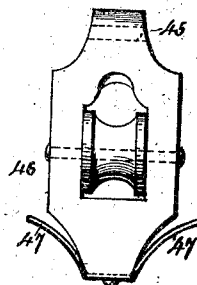
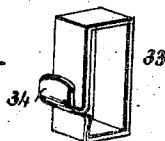


FIG. 7.



Witnesses

James L. McLaughlin
J. K. Tiggers,

Inventor

Oscar D. Mowrer

By *his* Attorneys,

Chas. H. Co.

UNITED STATES PATENT OFFICE.

OSCAR DOUGLAS MOWRER, OF CLAREMONT, ILLINOIS.

CORNSTALK-SHOCKER.

SPECIFICATION forming part of Letters Patent No. 505,225, dated September 19, 1893.

Application filed December 24, 1892. Serial No. 456,264. (No model.)

To all whom it may concern:

Be it known that I, OSCAR DOUGLAS MOWRER, a citizen of the United States, residing at Claremont, in the county of Richland and State of Illinois, have invented a new and useful Cornstalk-Shocker, of which the following is a specification.

My invention relates to improvements in corn-harvesters; and has particular reference to a shocking device to be applied thereto and used in connection therewith, whereby the corn as cut may be conveniently shocked or bundled and deposited upon the ground.

The objects and advantages of the invention, together with the novel features thereof, will hereinafter appear and be particularly pointed out in the claims.

Referring to the drawings: Figure 1 is a perspective view of a corn-harvester of the ordinary pattern provided with a shocker attachment embodying my invention. Fig. 2 is a similar view, the shocker being in the act of discharging its contents or the shock. Fig. 3 is a transverse section through the rear end of the machine and the shocker. Fig. 4 is a detail in perspective of the cord-carrying box. Fig. 5 is a detail of the rope-guiding yoke. Fig. 6 is a detail in elevation of the pulley-block. Fig. 7 is a perspective view of the rope-terminal supporting sleeve.

Like numerals of reference indicate like parts in all the figures of the drawings.

I have herein illustrated my invention as applied to one of the ordinary forms or constructions of corn harvesters, and I desire to state that though I have herein shown it thus applied it will be obvious that the attachment may be applied to any of the forms of harvesters, and I therefore do not limit the invention to use in connection with the form of harvester herein shown. In the present instance, wherein I have illustrated the shocker in connection with an ordinary sled-form of harvester, 1 designates the opposite runners of the sled, which as is usual, are connected by the cross-bars 2, and longitudinal beam 3, such framework supporting the platform 4, from the front of which rises the seat standard 5 for the accommodation of the seat 6 for the driver. The platform, as is usual, is extended at one side forming a wing 7, and

to its front diagonal edge there is secured the cutting-blade 8.

The platform at the opposite corner at which the wing is located is provided with a rectangular opening 9, and in the same there is fitted a plate or cover 10, the same being hinged as at 11 to the outer edge of the platform and provided at its inner free edge with a cross cleat 12 securely bolted thereto and having its opposite ends overlapping the platform, whereby the said plate is not permitted to swing down out of a horizontal plane with the platform 4.

Opposite the inner edge of the opening 9 there is located upon the platform 4 short bearing-standards 13, and in them is journaled a longitudinally-disposed rock-shaft 14. A U-shaped bail-lever 15, is secured rigidly between its terminals to the rock-shaft 14, and at its outer end forms a treadle 16, while its inner terminals are downwardly-bent nearly at a right angle to its remaining portion and form feet or levers 17. These feet or levers normally lie in recesses 18, formed in the inner edge of the opening 9. A catch 19, is pivoted between the levers 17, and when the trap-door is lowered to cover the opening 9, said catch engages over the free edge of the cleat 12. The catch is formed of spring-metal, preferably, and is connected by a link 21 with a pin 22 on the rock-shaft 14, so that said rock-shaft is normally drawn toward the catch and consequently the levers of the bail press into the openings provided for their reception, while the treadle-portion of said bail is elevated above the platform.

The plate 10 is provided with a circular opening 23, and in it is swiveled a post 24, the upper end of which is squared. The lower end of the post, which extends below the plate is provided with a head 25. A pair of U-shaped standards 26 are located at opposite sides of the squared upper portion of the post, and the terminals of these standards are between their ends connected by a substantially horizontal U-shaped brace 27. The two standards are connected by a rod 28 passing through the post. Curved standards 29 are bolted to opposite faces of the squared portions of the post between the U-shaped standards, and the terminals of the standards 26

and standards 29 at each side are connected by side-bars 30, the said standards and side-bars forming a cradle in which the shock is formed and the entire structure being swiveled upon the platform and capable of revolving in a horizontal plane, and to be tilted by a swinging of the trap-door 10. One of the bars 30 is provided in its upper edge near one end with a notch 31, and below the same with a pin 32, while near its middle it is provided with a loose ring or slide 33 having a hook 34. The opposite bar has secured to it near its center a cord-box or basket 35 having a hole 36 in its side. The bar is further provided with perforations 37 near one end and with a notch 38 in rear of the perforation. The connecting-rod 28 between the two U-shaped connecting frames 27, is provided at one end with a transverse bar 39, and to it by means of a clip 40 is secured a U-shaped guide-yoke 41, having eyes 42 in its ends. A binding-rope 43 is passed through the clip and guide-eyes of the yoke, and is provided at one end with a loop 44 which engages with the eye 45 of a pulley 46, the remaining end of the rope passing through the pulley and designed to operate over the pulley-wheel and having its free end connected with either end of a pair of spring-cleats or clips 47 with which one end of said pulley is provided.

In operation the cord is placed in the cord-basket, is preferably doubled in that it may be more easily tied, is passed through the perforation 37, where it may be held by a removable peg or pin looped loosely to the bottom of the cradle, and passed through the notch 31, where its loop is connected to the pin 32 extending therefrom. The binding-rope has its free end loosely suspended or carried by the hook 34 of the sliding-clasp. The machine being started the corn as it is severed is deposited in armfuls by the attendant standing on the platform into the cradle, and when a sufficient number of stalks to compose a shock have been received by the cradle, the free end of the binding-rope is passed about the bundle and through the pulley, and by being drawn upon it will be seen that the rope may be tightened and the stalks compressed, after which the end of the rope is drawn into any one of the spring-clips or cleats, whereby it is prevented from slipping. The operation of tying is then carried on in the usual manner, and requires no specific description. When the shock has been thus tied, the cradle is given a half rotation and the foot of the operator placed upon the treadle 16, which is thus depressed, causing the rock-shaft 14 to rock and the feet or levers at the end of the treadle take under the trap-door and elevate the free end of the same until the weight of the shock causes the platform to swing outward and the shock to slide, butt-end first, to the ground. In fields of ordinary length the cradle is sufficiently large to receive all the stalks of an entire row, and thus it will be seen that shocks are located

only at the ends of the rows, and more room is left for planting than where the shocks are located at intervals.

From the foregoing description in connection with the accompanying drawings it will be seen that I have provided a simple attachment for corn-harvesters, whereby the operation of shocking the corn after the same has been cut is greatly facilitated and that but two men are required to operate the machine, one to drive and the other to receive the corn as it is cut and deposit it lengthwise in the cradle. After the shock has been tied and discharged the trap-door is swung to its normal position upon the platform, the catch snapped over the edge of the platform and locking the same, and the cord drawn out from the basket, knotted so as to form the double-binder and its loops passed through the notch 31, and suspended over the pin.

Having described my invention, what I claim is—

1. In a corn harvester, the combination with the platform thereof, of a post swiveled therein, U-shaped standards 26 located at opposite sides thereof, and curved standards 29 located therebetween and bolted to the post, opposite side-bars 30 connecting the upper ends of said standards 26 and 29, oppositely disposed U-shaped and substantially horizontal braces 27 bolted to the opposite sides of the post and connecting the terminals of the outer U-shaped standards 26, and a rod passed through the post and through and connecting the U-shaped standards 26 and the braces 27, the whole combining to form a cradle, substantially as specified.

2. In a corn-harvester, the combination with the platform thereof, of a post rising therefrom, a U-shaped cradle mounted on the post and provided with opposite side-bars, one of said side bars being provided near one end with a notch and below the same with a pin, and the other of said side-bars provided with a cord-carrying basket, and with a perforation for said cord, and adapted to removably receive a peg mounted in the perforation, substantially as specified.

3. In a corn-harvester, the combination with a U-shaped frame, having a curved wire guide secured to one end thereof, and terminating in eyes, a binding-rope passed through the wire-guide, a pulley secured to one end of the rope and provided with a spring cleat at its opposite end for engaging the free end of the rope, substantially as specified.

4. The combination in a corn-harvester, of a U-shaped frame, a rod passing through the frame and extending beyond the same and provided with a cross-pin, a clip having an eye engaging the pin, a curved rod having eyes and engaging the clip, and a rope passed through the eyes of the rod a pulley on one end of the rope, and spring-clips on the end of the pulley.

5. In a corn-harvester, the combination with the platform thereof having an opening,

and a plate hinged therein, of a cradle carried by the platform, and means for elevating said plate, substantially as specified.

5 6. In a corn-harvester, the combination
with the platform thereof having an opening,
a plate hinged at its outer edge to the opening,
a rock-shaft mounted in bearings in front
of the free end of the platform, a bail mounted
10 rigidly on the rock-shaft terminating at its
outer end in a treadle and having its inner
ends bent downwardly to form levers for engaging
the free edge of the plate, of a cradle
swiveled in the trap-door, substantially as
specified.

15 7. In a corn-harvester, the combination
with the platform thereof having an opening,
a plate hinged at its outer edge to the opening
and provided at its free edge with a cross-
cleat for engaging the platform, bearings located
20 on the platform, a rock-shaft mounted in the bearings,
a U-shaped bail secured to the rock-shaft and having its terminals dis-

posed at an angle thereto, and engaging the
front edge of the plate, a spring-catch pivoted
to the edge of the opening, connecting-de- 25
vices between the catch and the pin on the
rock-shaft, of a post swiveled in the plate,
and a cradle carried by the post, substantially
as specified.

8. In a corn harvester, the combination 30
with the platform thereof having an opening,
the plate hinged therein, a lever fulcrumed
near the front edge of the plate upon the platform
and having its inner end engaging the
free edge of the plate, of a cradle swiveled on 35
the door, substantially as specified.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
the presence of two witnesses.

OSCAR DOUGLAS MOWRER.

Witnesses:

J. O. PETTY,
WM. FRITCHEY.