(No Model.) 2 Sheets—Sheet 1.

C. S. LOCKE.

CHECK ROWER FOR CORN PLANTERS.

No. 298,003. Patented May 6, 1884.

Fig. 1.

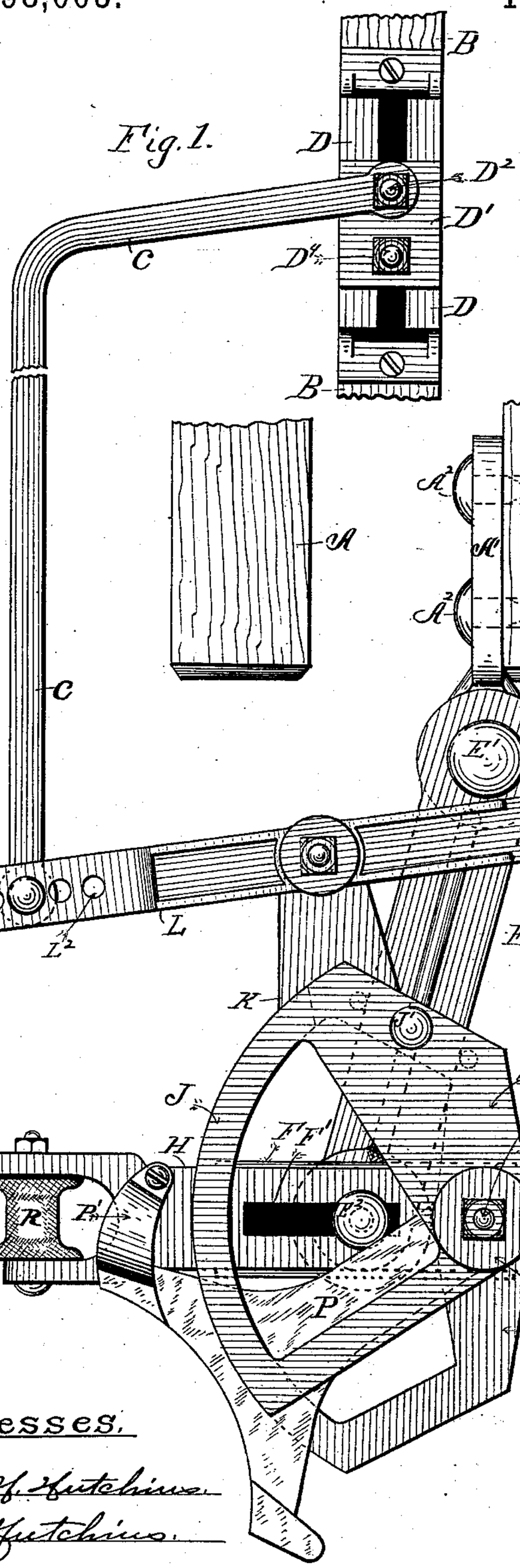
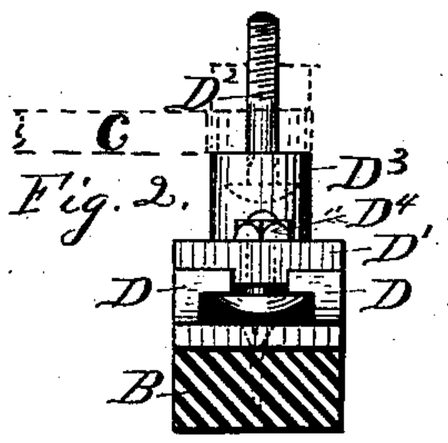


Fig. 2.



Witnesses.

Thos. H. Hutchins.

Wm. J. Hutchins.

Inventor.

Charles S. Locke.

(No Model.)

2 Sheets—Sheet 2.

C. S. LOCKE.

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Fig. 3.

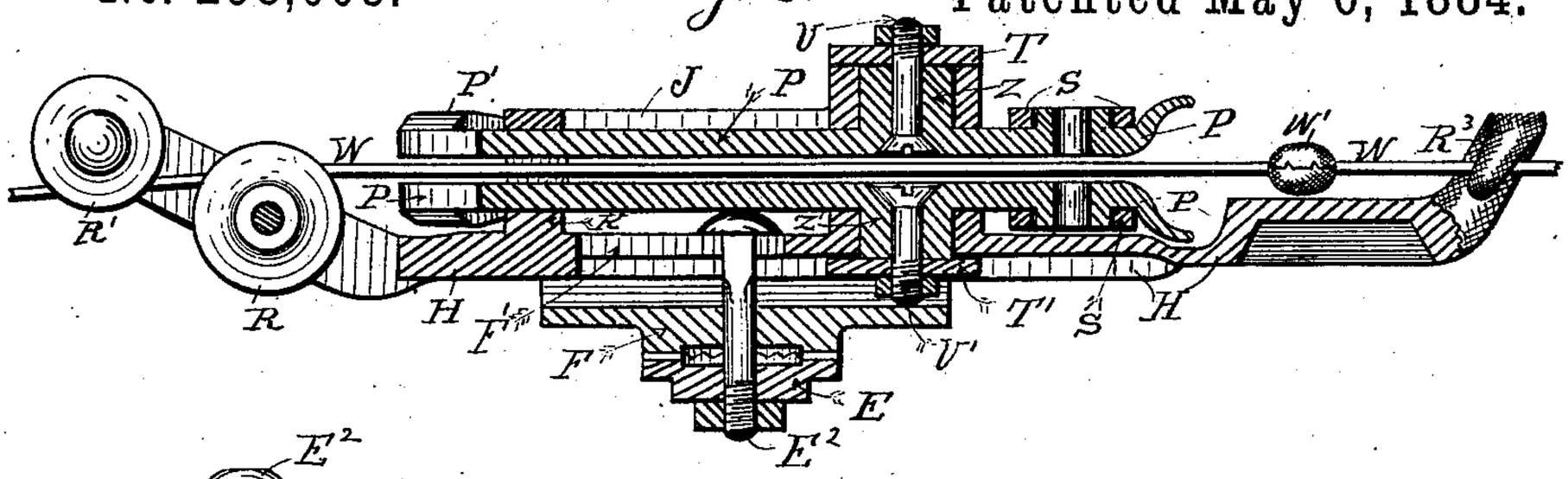


Fig. 4.

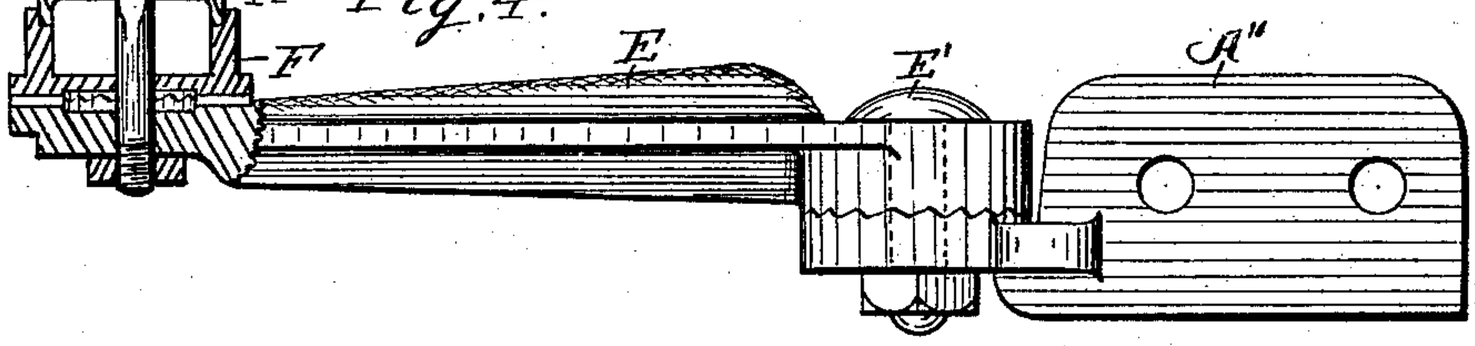


Fig. 5.

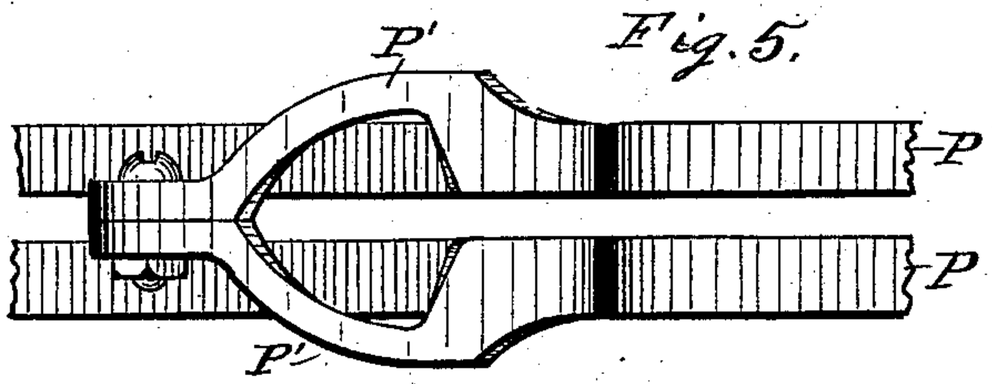


Fig. 6.

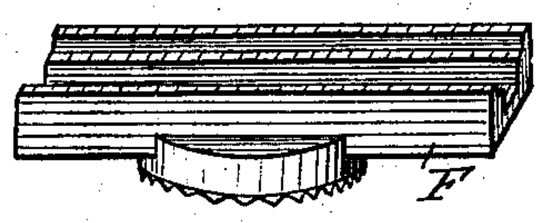


Fig. 7.

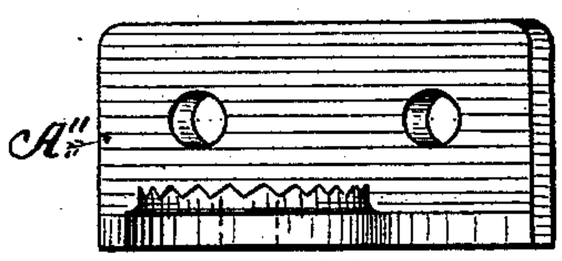
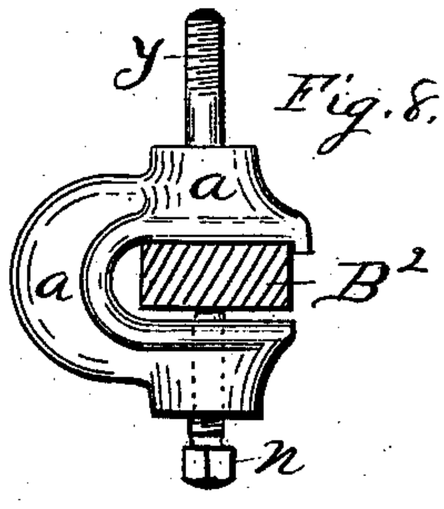


Fig. 8.



Witnesses

Thos. H. Hutchinds.

Wm. J. Hutchinds.

Inventor.

Charles S. Locke.

UNITED STATES PATENT OFFICE.

CHARLES S. LOCKE, OF JOLIET, ILLINOIS.

CHECK-ROWER FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 298,003, dated May 6, 1884.

Application filed January 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. LOCKE, a citizen of the United States of America, residing at Joliet, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Check-Rowers for Corn-Planters, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a plan view; Fig. 2, a cross-section of the shake-bar attachment; Fig. 3, a longitudinal section; Fig. 4, a side view of the bracket for attaching the attachment to the planter; Fig. 5, a side view of a portion of the Y-shaped levers; Fig. 6, a perspective view of the seat supporting the frame of the attachment; Fig. 7, a perspective view of the plate by means of which the attachment is bolted to the planter, and Fig. 8 a side view of the clamp for attaching the connecting-rod *c* to a metal shake-bar.

This invention relates to improvements in check-rower attachments for corn-planters, and is designed more especially as an improvement on the invention described in Letters Patent No. 280,641, granted to me July 3, 1883.

The object of the invention is to improve the means employed for guiding the knotted cable, in convenient means for securing the attachment to the frame of the planter and render it more adjustable to fit any planter, and in certain other novel devices and combination of devices, as will be described and claimed.

Referring to the drawings, H represents the main frame of the attachment, which rests on the seat-plate F, (shown more clearly in Figs. 3, 4, and 6,) which plate in turn is supported on the outer end of the bracket-arm E. The frame H is provided with a slot, F′, through which passes the bolt E^2, to secure the frame H to the bracket-arm E, as shown in Figs. 3 and 4. The slot F′ permits horizontal adjustment or movement of the frame H on the plate F by loosening the nut of the bolt E^2. The meeting faces of plate F and bracket-arm E are provided with corresponding radial serrations, which mesh with each other when the nut on bolt E^2 is screwed up tightly for the purpose of holding the parts in position. The opposite end of bracket-arm E attaches to plate A″ in a similar manner by means of the bolt E′, as shown in Fig. 4. By this means of connecting the attachment to the planter-frame A it may be adjusted and fitted to any planter with reference to the dropping portion, and also furnishes ready means to set the attachment forward or backward, as may be necessary should the knotted cable change position. The front end of the frame H terminates in the hook R^3, and has mounted on it the sheave-wheel R^2, which hook and sheave guide the knotted wire into the Y-shaped lever P. The opposite end of the said frame is provided with a pair of sheave-wheels, R and R′, between which the knotted wire is guided and emerges from the machine, these several sheave-wheels answering the purpose named much better than the guides provided in the Letters Patent referred to. Frame H has cast integral with it the segment-frame K, which is covered by a like-shaped plate, J, which two plates are held together at one side by the bolt or rivet J′ and a pair of dowel-pins, one on either side of said bolt. Between these two plates is located a Y-shaped lever, P, pivoted at V, as shown in Fig. 1, which lever is vibrated from one side to the other by means of the knotted wire as it passes through between the two halves or parts in precisely the same manner as is described in said former patent, and said Y-shaped lever is constructed the same as is described in said patent, except that one of its outer ends or corners terminates in a pair of curved arms, P′ P′, which are bolted together by means of a bolt and nut, as shown in Figs. 1 and 5, by means of which a more steady and certain movement is imparted to said lever, and its two parts rendered less liable to displacement. The bow of said arms P′ P′ permits the passage of the knots or balls on the cable W out between them. Fig. 3 shows the wire W placed in position in the machine, and provided with the knots or balls W′. Each separate plate of the Y-shaped lever P is pivotally secured by means of the trunnions Z to the segment-plates J and K, one in each plate, as shown in Fig. 3, and secured therein by washers T and T′, secured on the ends of said trunnions by means of the bolts *v* and *v′*. The plates J and K hold the two halves of lever P separated just far enough for the cable W to pass freely between, but to

exclude the ball W′. The manner in which the balls W′ of said cable oscillate or vibrate said lever P is fully set forth in said former Letters Patent, and hence need not be described here. The lever P is connected with the shake-bar B of the planter by means of the link S, lever L, and connecting-rod *c*, as shown in Fig. 1. The shake-bar B and connecting-rod *c* are connected as shown in Figs. 1 and 2, and such means of connection form one new feature in this invention. The shake-bar B is provided on its upper surface with the plate D, attached thereto by means of a screw at each end. Said plate is provided with elevated sides, which terminate in inwardly-projecting flanges, as shown in Fig. 1, which flanges do not quite meet, so as to leave a slot or opening between them. A sliding plate, D′, rests therein, and is provided with a central downwardly-projecting rib that slides between said flanges, as shown in Fig. 2. Plate D′ is provided on its upper surface with the integral stud D^3, and terminating in the pin D^2, which passes through the connecting-rod *c*, and a nut secures said connecting-rod thereon. The bolt D^4 secures plate D′ to plate D, as shown in Fig. 2. By means of this sliding plate D′ the connecting-rod *c* can be adjusted along on the shake-bar B, as may be desired, to regulate the drop.

When the machine or planter has a metal shake-bar, as shown at B^2 in Fig. 8, the clamp *a* (shown in said Fig. 8) may be used, the connecting-rod *c* attaching to the pin *y*, and the clamp held to the shake-bar by means of the set-screw *n*.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows, to wit:

1. In a check-rower for corn-planters, the combination of the frame H, having the slot F′, seat-plate F, bracket-arm E, and plate A″, the several parts adjustably secured together, as and for the purpose set forth.

2. In a check-rower for corn-planters, the combination, with the frame H, of the seat F, bracket-arm E, and plates A″, the several parts being provided with the serrations described, and held adjustably together, as and for the purpose set forth.

CHARLES S. LOCKE.

Witnesses:

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PERRY J. HOBBS.