(No Model.) 3 Sheets—Sheet 1.

L. SCOFIELD.

ACTUATING MECHANISM FOR PLANTERS.

No. 509,453. Patented Nov. 28, 1893.

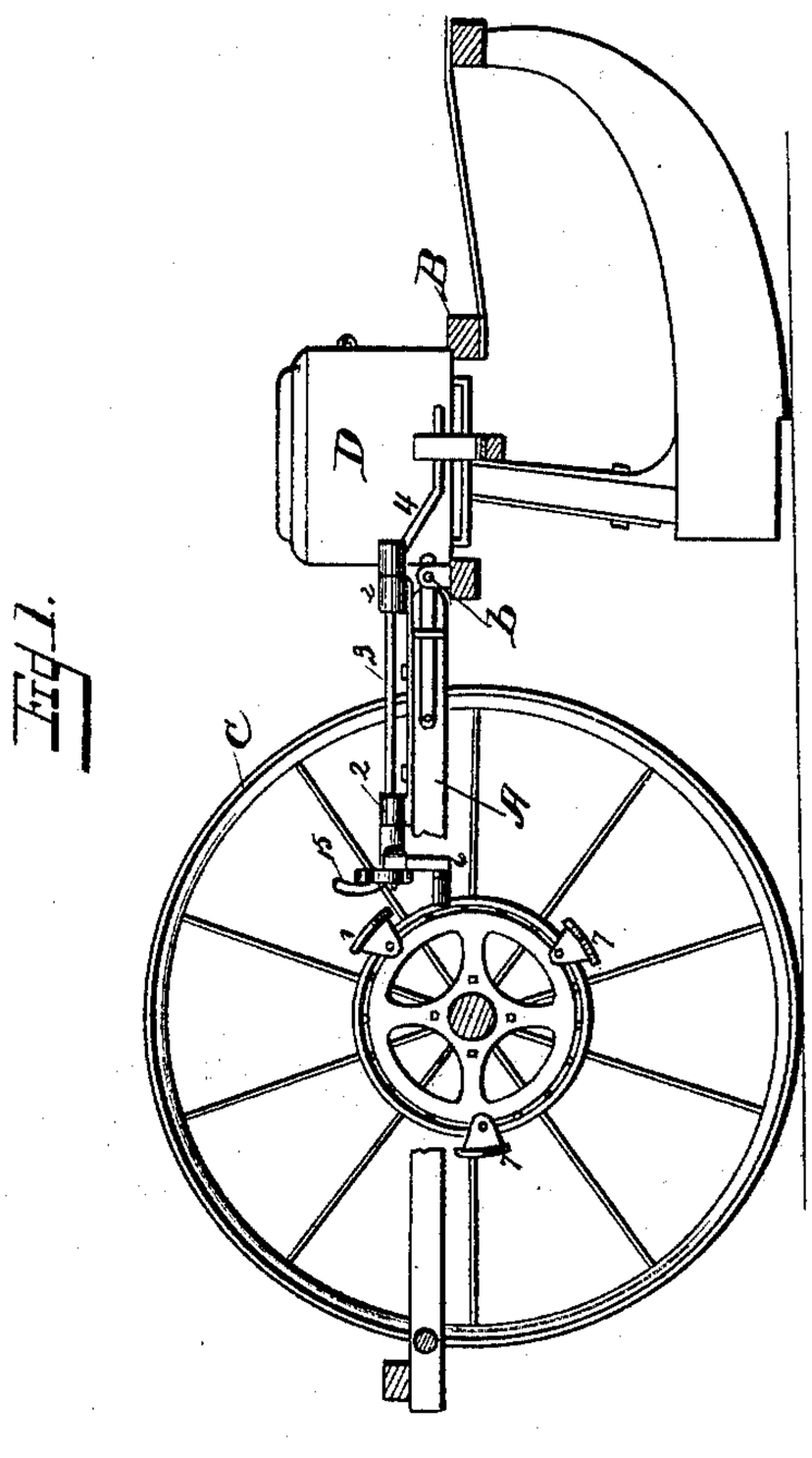

Fig. 1.

Witnesses:
J. M. Fowler Jr.
Alex. F. Stewart.

Inventor
Levi Scofield,
By Church & Church
his Attorneys

THE NATIONAL LITHOGRAPHING COMPANY,
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALEXANDER SANDERS, OF POPLAR BLUFF, MISSOURI.

WHIP.

SPECIFICATION forming part of Letters Patent No. 509,452, dated November 28, 1893.

Application filed February 15, 1893. Serial No. 462,412. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER SANDERS, a citizen of the United States, and a resident of Poplar Bluff, in the county of Butler and State of Missouri, have invented certain new and useful Improvements in Whips; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to improvements in whips and has for its object to provide improved means for connecting the thong with the handle or stock, whereby they are securely held or secured.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings: Figure 1 is a side elevation of a portion of a whip showing my improvements. Fig. 2 is a central sectional view. Fig. 3 is a similar view of the handle detached. Fig. 4 is a detail view showing the manner of connecting the securing cords or strips to the thong. Fig. 5 is a view showing a modified construction.

In the said drawings the reference numeral 1 designates the handle of wood or other suitable material, provided at one end with a metallic socket 2, with a hollow shank 3, into which the end of the handle fits and is secured thereto by means of rivets 4. It is also provided with two or more holes or apertures 6, at or near its junction with the shank. The thong consists of a number of leather straps or strips plaited together as usual. One end of the thong is adapted to be inserted in the socket 5, and the straps or strips at such end are pierced with a hole or aperture through which is passed the securing cord or strip of leather 7 or other material. After being passed through said apertures, the strip 7, is looped around the ends of the straps composing the thong, thereby securely holding or clamping the same together. The end of the thong is then inserted in the socket 5, the cords or strips 7 passed through the apertures 6, and then wound around the shank 3, and securely tied. By this means the thong and handle are securely connected together. The upper end or tip of the thong is to be provided with the lash as usual, and it may be stiffened with a central wooden or rattan core, and the handle, socket, and thong may also be provided with a plaited covering if desired, and may be otherwise finished, as in ordinary constructions of whips.

In the modification shown in Fig. 5, the handle is provided with a metallic ferrule 8, provided with a shoulder 9. This ferrule passes up through the hollow shank and projects a short distance within the socket where it is provided with a collar 10, whereby the socket is held in place. It will thus be seen that the socket is swiveled upon the ferrule so that it may be turned or rotated thereon.

My invention is applicable to all styles of whips, from the commonest grades, such as are used by cattlemen, truck drivers and others, to the finer constructions, such as coach, saddle, and circus whips.

Having thus described my invention, what I claim is—

1. In a whip the combination with the socket, having holes or apertures therein, and formed with a hollow shank, the handle fitting in said shank, the thong fitting in said socket, and the fastening cord passing through the end of said thong and through the holes in the socket and wound around the socket and tied, substantially as described.

2. In a whip, the combination with the ferrule having a shoulder at its outer end and a shoulder at or near its center, of the socket swiveled in said ferrule and provided with holes or apertures, the thong fitting in said socket, and the fastening cord passing through said thong and holes and wound upon the socket and tied, substantially as described.

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

ALEXANDER SANDERS.

Witnesses:
W. W. BOYD,
GREEN TYRO.

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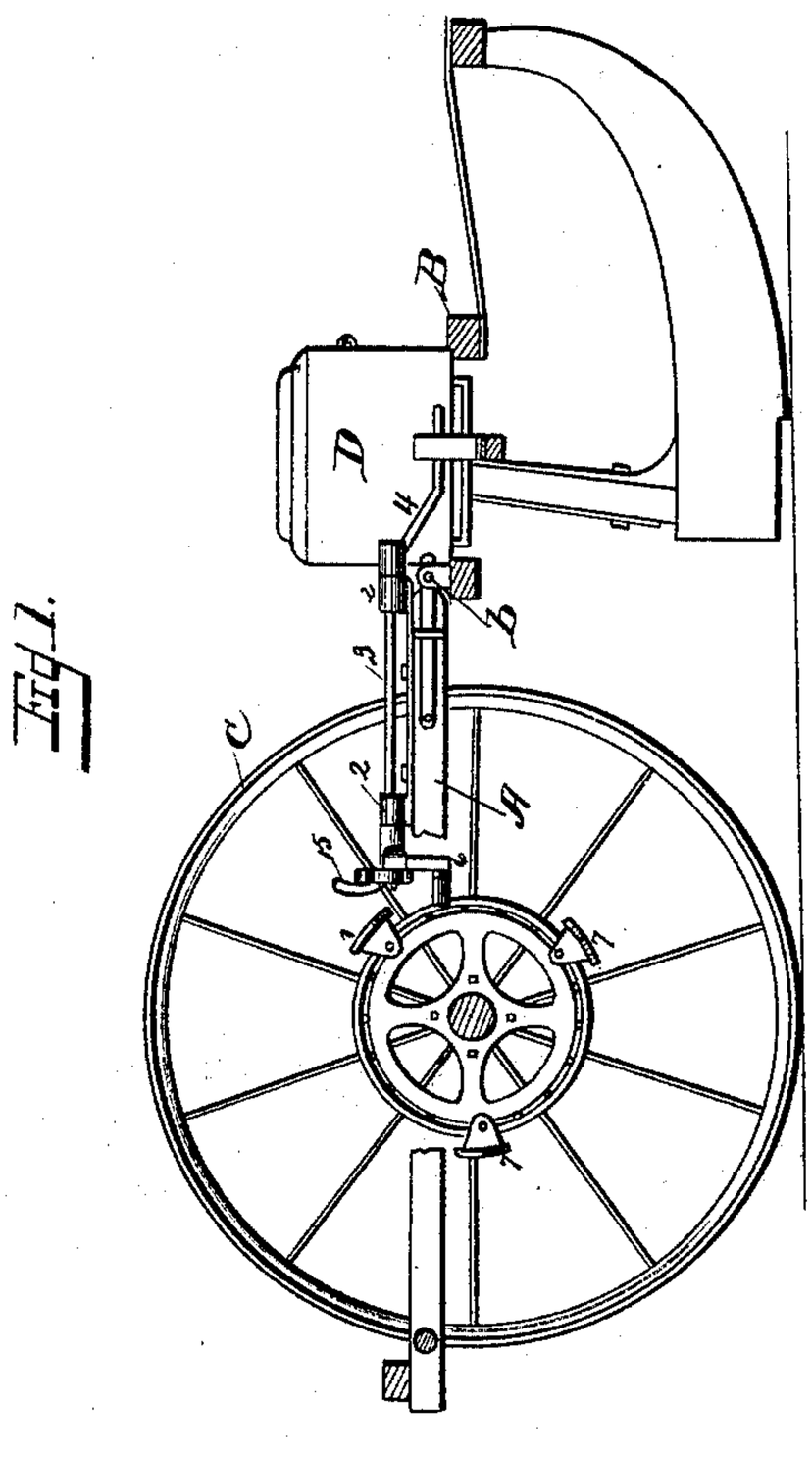

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ALEXANDER SANDERS.

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ing devices into and out of action at pleasure and this is accomplished in the following manner: The arm 6, which, when the attachment is in action, stands within the plane of movement of the tappets, instead of being rigidly secured to the shaft 3, is mounted loosely thereon and is provided with an arm or extension 13 carrying a pivoted eccentric or cam 14 which is furnished with a suitable handle 15 for turning it. To the shaft 3 is secured a yoke 15ª between the arms of which the cam or eccentric 14 is received. Upon turning the eccentric while resting between the arms of the yoke 15ª its point of attachment to the arm 13 will be shifted from one side to the other, and the arm 6 will be correspondingly moved to change its angular relation, thus shifting it from the plane of the tappets to a position to one side thereof or vice versa as indicated in Fig. 4. By thus providing for shifting the arm which contacts with the cam wheel, to throw the mechanism into and out of action, the normal position and relation of the crank arm and shake-bar is preserved; moreover the shifting devices are brought nearer the driver and in such position that they can readily be operated by him without leaving his seat on the main frame.

The crank arm 4 is arranged to stand substantially in a line radial to the axis of the hinge or hinges connecting the main and runner frames in order that the adjustment of the runner frame may effect the least change in the point of contact of the crank arm upon the abutment.

Having thus described my invention, what I claim as new is—

1. In a planter, such as described, and in combination with the seeding mechanism and the shake bar thereof, a retracting spring connected to the shake-bar, and an actuating device provided with a crank-arm deriving motion from the supporting wheel disconnected from but engaging one face of an abutment or shoulder on the shake bar, substantially as described.

2. In a planter, such as described, and in combination with seeding mechanism mounted upon the runner frame and provided with a reciprocating bar for actuating the same, an abutment secured to said bar, a retracting spring, and alternating devices mounted upon the main frame, and comprising a rock shaft with crank-arm disconnected from but acting on the abutment in opposition to the retracting spring, and a cam on the supporting wheel engaging an arm on the rock-shaft to move the latter; substantially as described.

3. In a planter, such as described, the combination with the seeding mechanism, shake-bar and the retracting spring for said bar, a rock shaft provided with a crank arm projecting on one side of an abutment secured to the shake-bar but disconnected therefrom and operating thereon in opposition to the retracting spring; substantially as described.

4. In combination with the runner frame, its feeding mechanism and shake-bar, actuating devices mounted upon the main frame and provided with an arm disconnected from but engaging an abutment on the shake bar, said arm standing in a line substantially radial to the axis of the joint connecting the main and runner frames; substantially as described.

5. The combination in a planter, such as described, and with the seeding mechanism thereof, an actuating mechanism therefor, comprising a rock shaft with crank arm engaging the seeding mechanism, a cam driven by the supporting wheel, an arm engaged by said cam wheel to rock the shaft, and devices intermediate said arm and rock shaft operating to shift the position of the arm and thus throw it into or out of contact with the cam; substantially as described.

6. In actuating mechanism such as described, for operating the feed mechanism of a planter, the combination with the driving cam and the rock shaft engaging the feeding mechanism, a yoke secured to said rock-shaft, an arm hung loosely on said shaft and an eccentric or cam engaging the yoke to shift the arm; substantially as described.

7. In an actuating mechanism, such as described, the combination with the rock shaft, and its yoke, and the driving cam, an arm 6 arranged to be engaged by the cam loosely hung on the rock shaft and provided with an arm or extension 13 carrying an eccentrically pivoted block working in contact with the yoke to change the angular position of said arm 6 on its shaft, and thereby shift said arm into or out of contact with the cam; substantially as described.

LEVI SCOFIELD.

Witnesses:
W. C. SHELDON, Jr.,
B. F. HARBECK.