

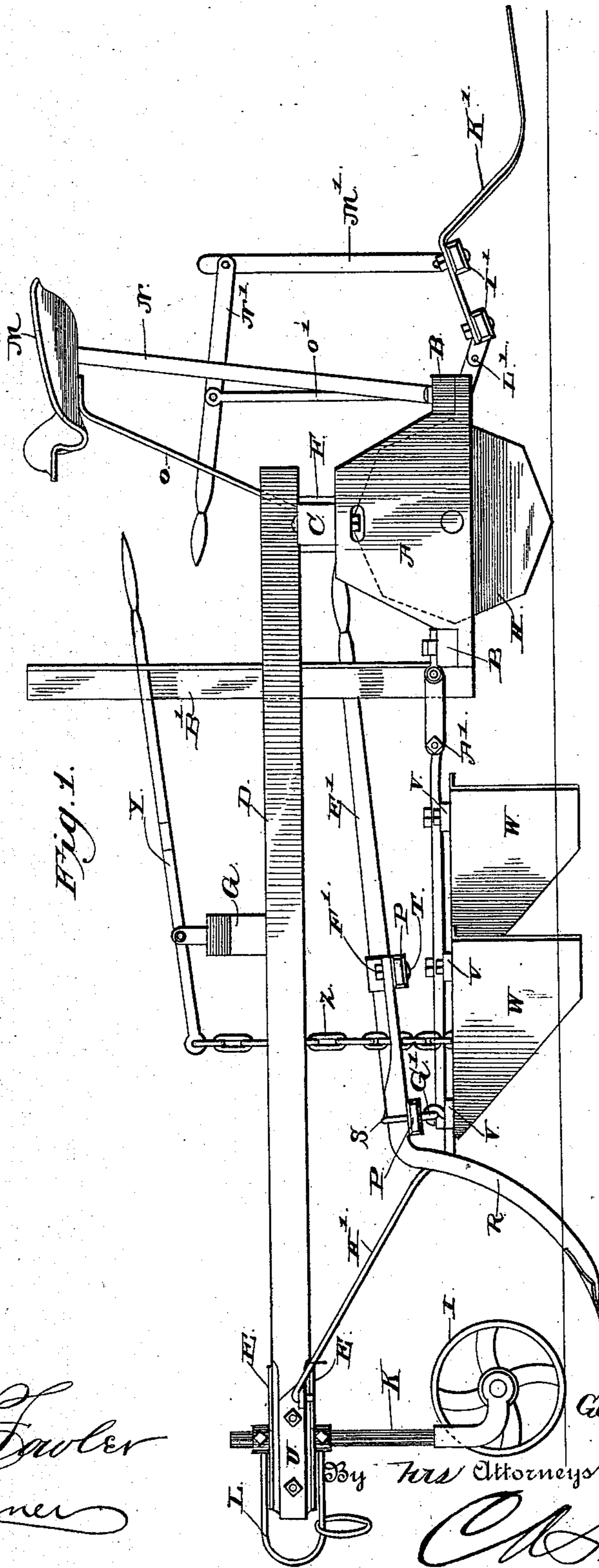
(No Model.)

3 Sheets—Sheet 1.

G. W. BASSETT.
COMBINED PULVERIZER AND CULTIVATOR.

No. 413,642.

Patented Oct. 29, 1889.



Witnesses

M. Fowler
J. Warner

Inventor

George W. Bassett

By *his* Attorneys

C. H. Snowdon

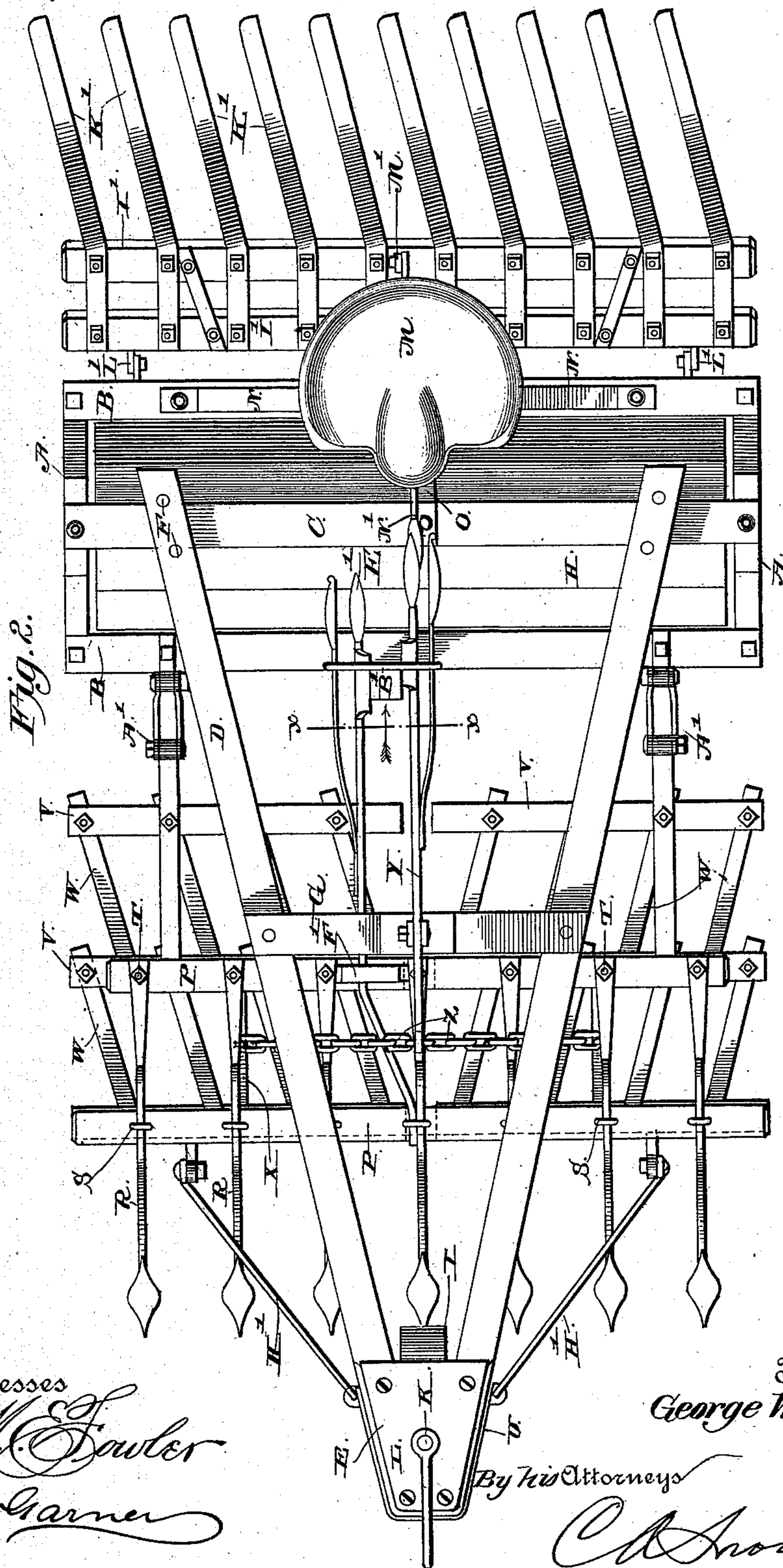
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John Warner

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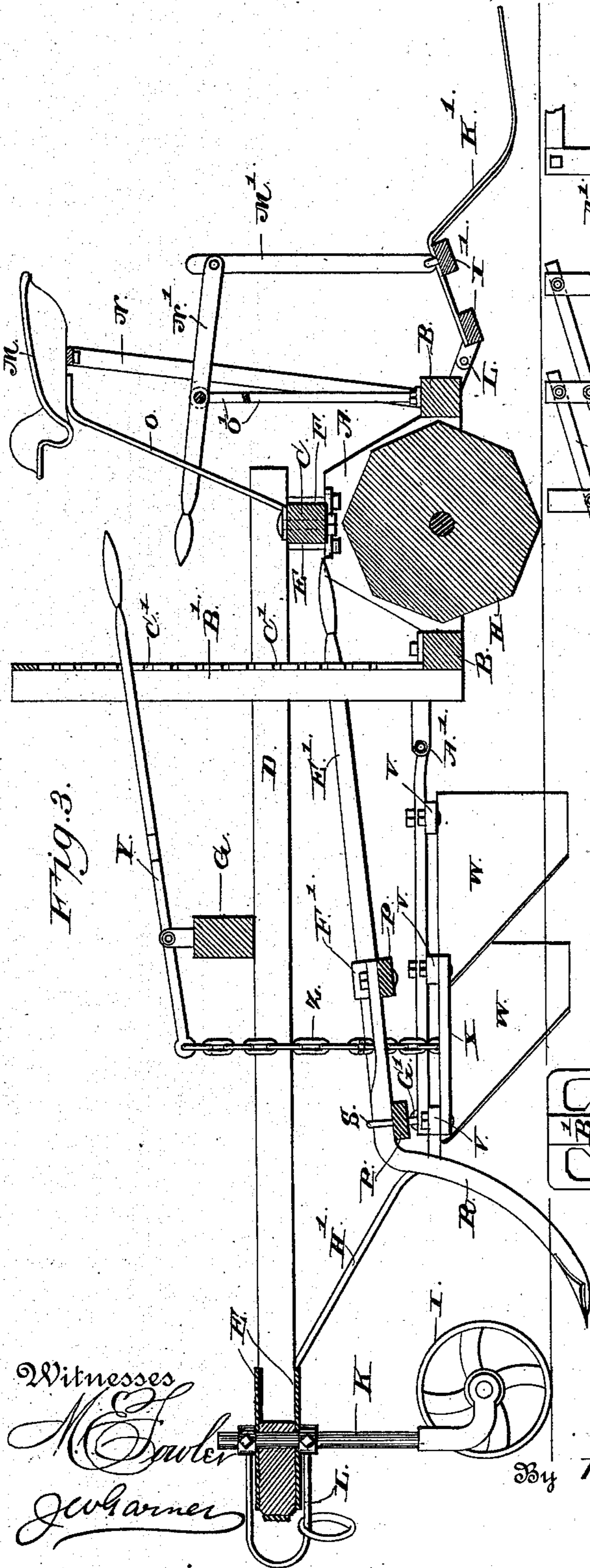


Fig. 3.

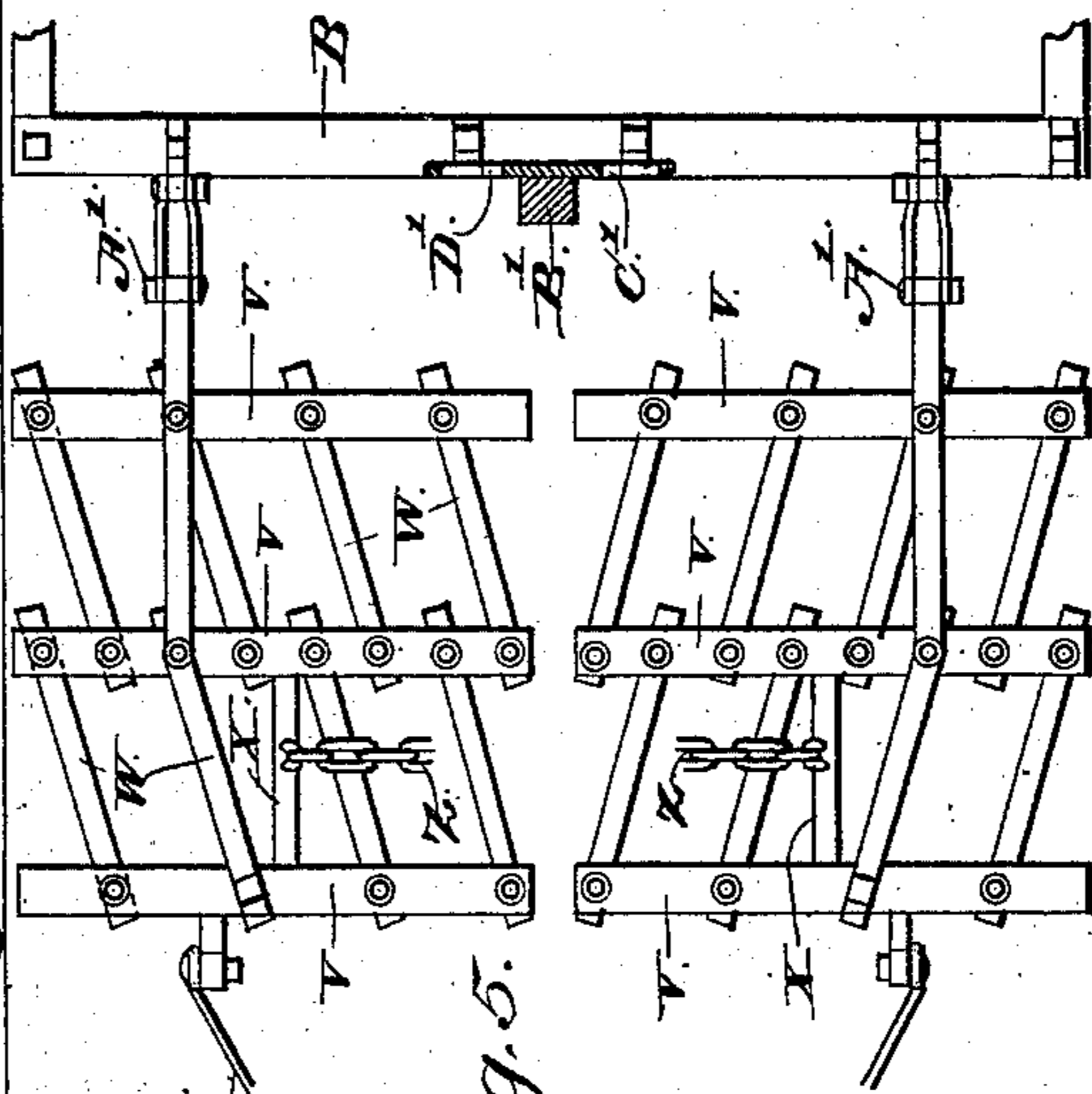


Fig. 5.

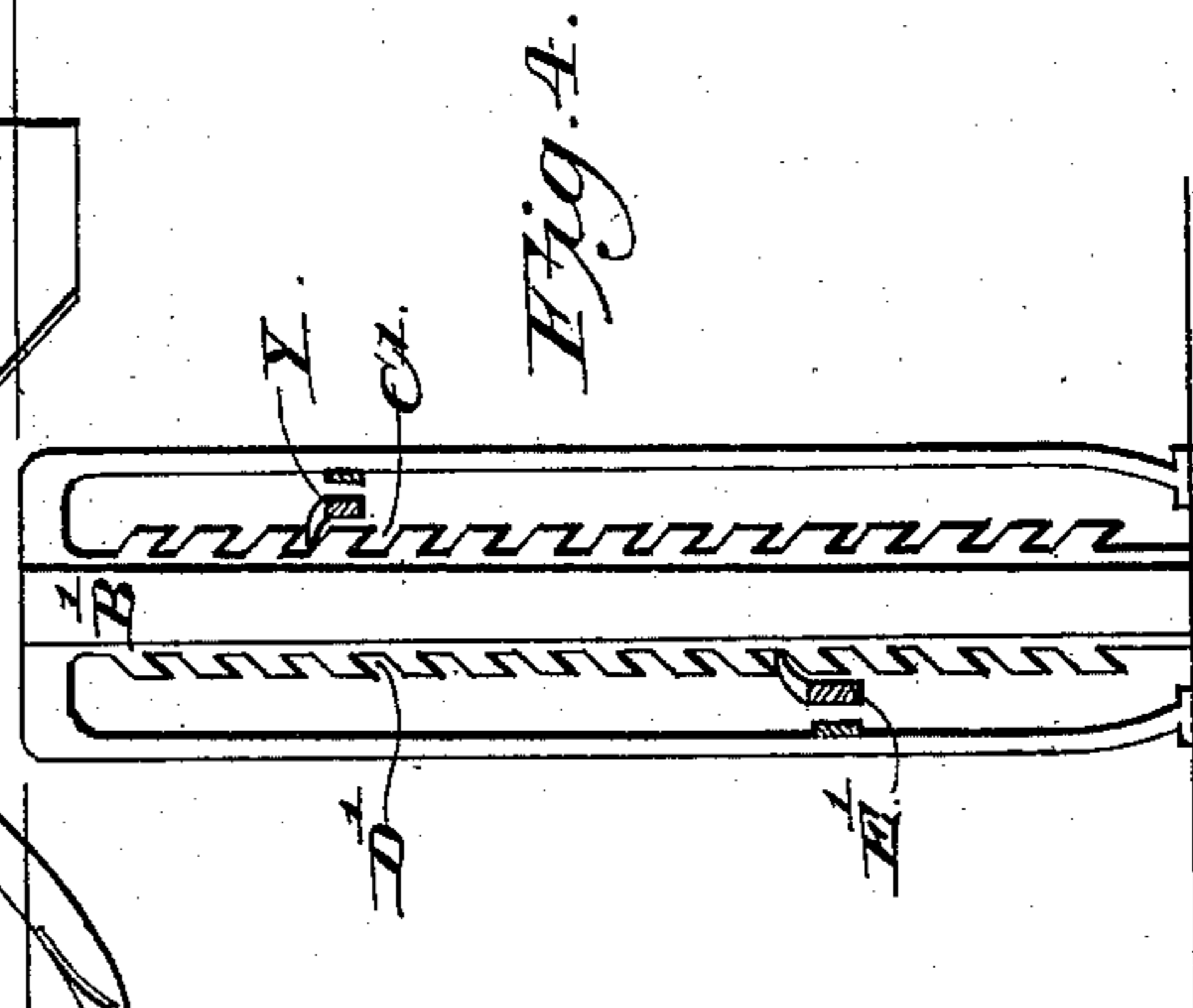


Fig. 4.

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UNITED STATES PATENT OFFICE.

GEORGE WASHING BASSETT, OF LOWER LAKE, CALIFORNIA.

COMBINED PULVERIZER AND CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 413,642, dated October 29, 1889.

Application filed February 7, 1889. Serial No. 299,022. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WASHING BASSETT, a citizen of the United States, residing at Lower Lake, in the county of Lake and State of California, have invented a new and useful Improvement in Combined Pulverizers, Cultivators, Rollers, and Weeders, of which the following is a specification.

My invention relates to an improvement in combined pulverizers, cultivators, rollers, and weeders; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of a machine embodying my improvement. Fig. 2 is a top plan view of the same. Fig. 3 is a vertical longitudinal sectional view. Fig. 4 is a vertical transverse sectional view on line X X of Fig. 2. Fig. 5 is a detail plan view of the pulverizer.

A pair of triangular blocks A have their lower corners connected by transverse bars B, and have their upper sides connected by transverse bars C.

D represents a pair of forward converging beams, which have their front ends connected by plates E, bolted to their upper and lower sides, and have their rear ends secured on the bar C by clip-bolts F. A cross-bar G connects the beams D, at a suitable distance from the front ends thereof.

H represents an octagonal roller, which has its axis journaled in the blocks A. The guide-wheel I is journaled in the lower bifurcated arms of a vertical shaft K, which shaft is journaled in openings in the plates E, and secured to the said shaft is a clevis L, to which the team is hitched.

M represents the seat for the driver, supported by a pair of bars N, that rise from the rear bar B, and by a bar O, which rises and inclines rearward from the center of bar C.

The cultivator-frame comprises a pair of parallel bars P, to which the cultivator-teeth R have their rearward-extending shanks secured by means of bolt-hooks S and bolts T.

U represents a pair of right-angled plates, which are bolted to the outside of the beams D, near the front ends thereof.

The pulverizer-frame comprises a pair of

sections composed each of a series of three parallel transversely-arranged bars V. The pulverizer-teeth W are formed of metallic plates having their front cutting-edges inclined and having their upper sides bent at right angles and bolted to the under side of the beams V, the said plates being arranged alternately out of line with each other, as illustrated in Fig. 2. The front pair of beams V of each section have their centers connected by a bar X. A hand-lever Y is pivotally connected to the center of the cross-bar G, and a chain Z connects said lever to the bars X and thereby adapts the front end of the pulverizer frames or sections to be raised and lowered. The rearmost bar V of each pulverizer-frame is attached to the front bar B of the roller-frame by means of hinges A'.

B' represents a standard which extends vertically from the center of the front bar B, and is provided on opposite sides with detaining teeth or notches C' D'. The lever Y is adapted to engage the notches C', and thereby the pulverizer-frames may be retained at any desired elevation. Pivoted on the center of the front bar P of the cultivator-frame is a hand-lever E', which also engages a strap or loop F' on the rear bar of the cultivator-frame, and the front bar of the cultivator-frame is connected to the front bars of the pulverizer-frames by means of hinges G'. The lever E' is adapted to tilt the cultivator-frame to any desired angle and is adapted to engage the teeth D' of standard B', and thereby secure the cultivator-frame at any desired adjustment. The front end of the pulverizer-frames are connected to the angle-plates U by means of draft-links H'.

The weeder comprises a pair of transverse bars I' and a series of diagonally-arranged knives or blades K', which have their shanks bolted to and connecting the said bars. The front bar of the weeder-frame is connected to the rear bar B of the roller-frame by means of hinges L', and from the rear bar of the weeder-frame extends a vertical standard M'. A hand-lever N' is connected to the upper ends of said standard and is fulcrumed between the upper ends of a pair of rods O', that rise from the rear bar B. By means of this lever the weeder may be lowered to the ground

and caused to operate at any desired depth, or the same may be entirely raised from the ground, as desired.

The operation of my invention will be very readily understood. The cultivator-teeth R serve to cut and loosen the soil, the pulverizer-teeth W serve to cut through the clods, and, owing to the oblique position of said plates W, the same serve to level the soil. The angular roller smooths and imparts a firm surface to the soil, and the angles thereof serve to break and pulverize clods which may have escaped disintegration by the pulverizing-plates W. The function of the weeding apparatus is to clear the land of weeds and trash. Wheels are slipped on each end of the axis of the roller when the roller is not in use.

It will be understood by reference to Fig. 5 that the pulverizer is made in two independent sections, and is thereby adapted to be so arranged as to cause the teeth W to throw the soil either outward or inward.

Having thus described my invention, what I claim is—

1. The combination of the roller-frame, the forward-extending bars D, the lever Y, fulcrumed on a support on said bars, the pulverizer-frame having its rear side hinged to the roller-frame, and having its front side connected to lever Y, the cultivator-frame having its front side hinged to the front side of

the pulverizer-frame, and the hand-lever attached to the cultivator-frame, whereby the frame may be inclined to any desired angle, substantially as described. 35

2. The combination, with the roller-frame, of the forward-extending beams B, secured thereto, the drive-wheel supporting the front ends of said beams, the pulverizer-frame hinged to the front side of the roller-frame, the draft-links connecting the front side of said pulverizer-frame to the bars B, the lever to raise and lower the pulverizer-frame, the cultivator-frame having its front sides hinged to the front side of the pulverizer-frame and provided with the forward extending pulverizer-teeth, and the lever attached to the cultivator-frame and adapted to incline the same, substantially as described. 40 45

3. The combination of the main frame, the tilting cultivator-frame, the vertically-adjustable pulverizer-frame, the operating-levers, and the roller, all combined and arranged substantially as herein set forth. 50

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses. 55

GEORGE WASHING BASSETT.

Witnesses:

THOMAS WILLIAM BEAKBARS,
JOHN B. BACCUS, Jr.