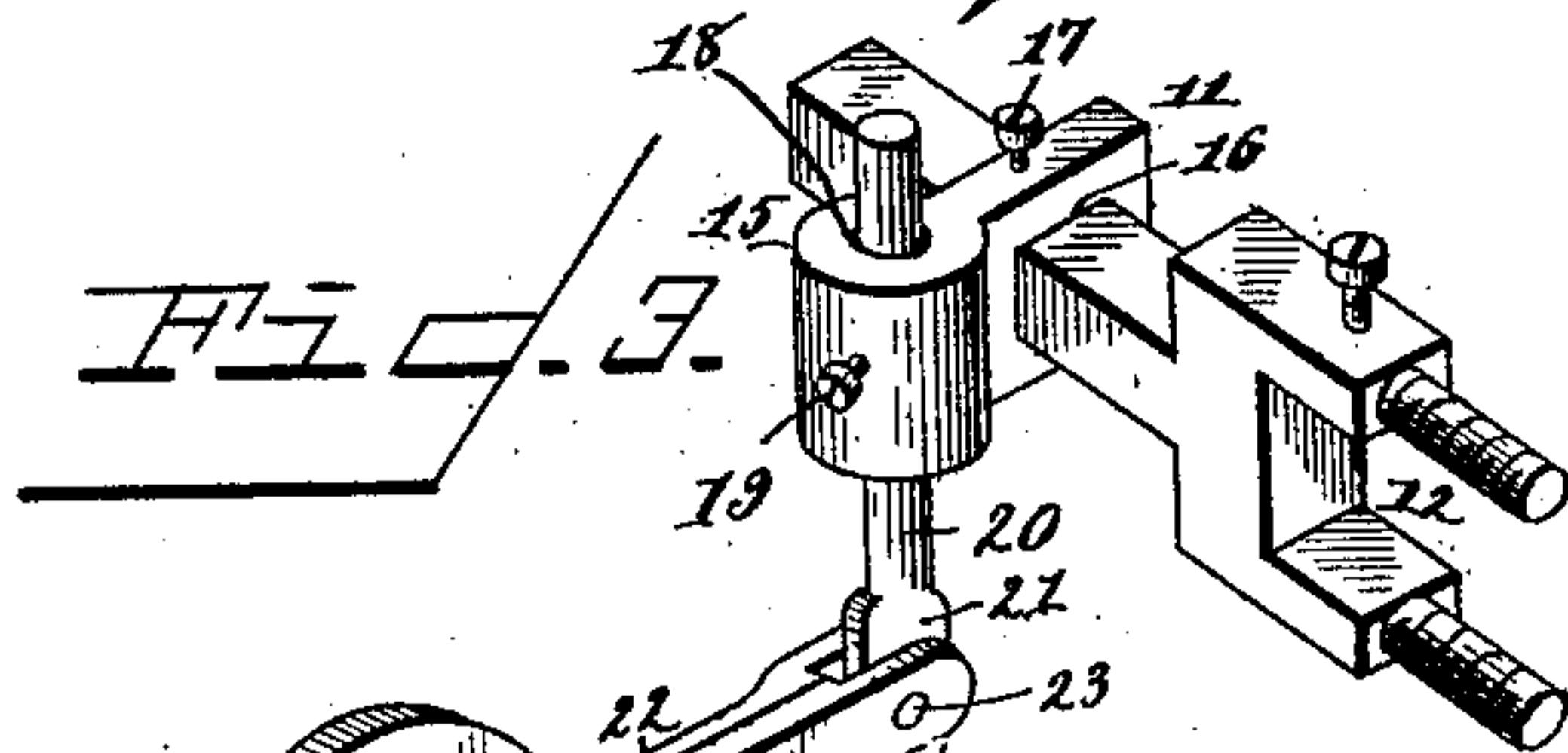
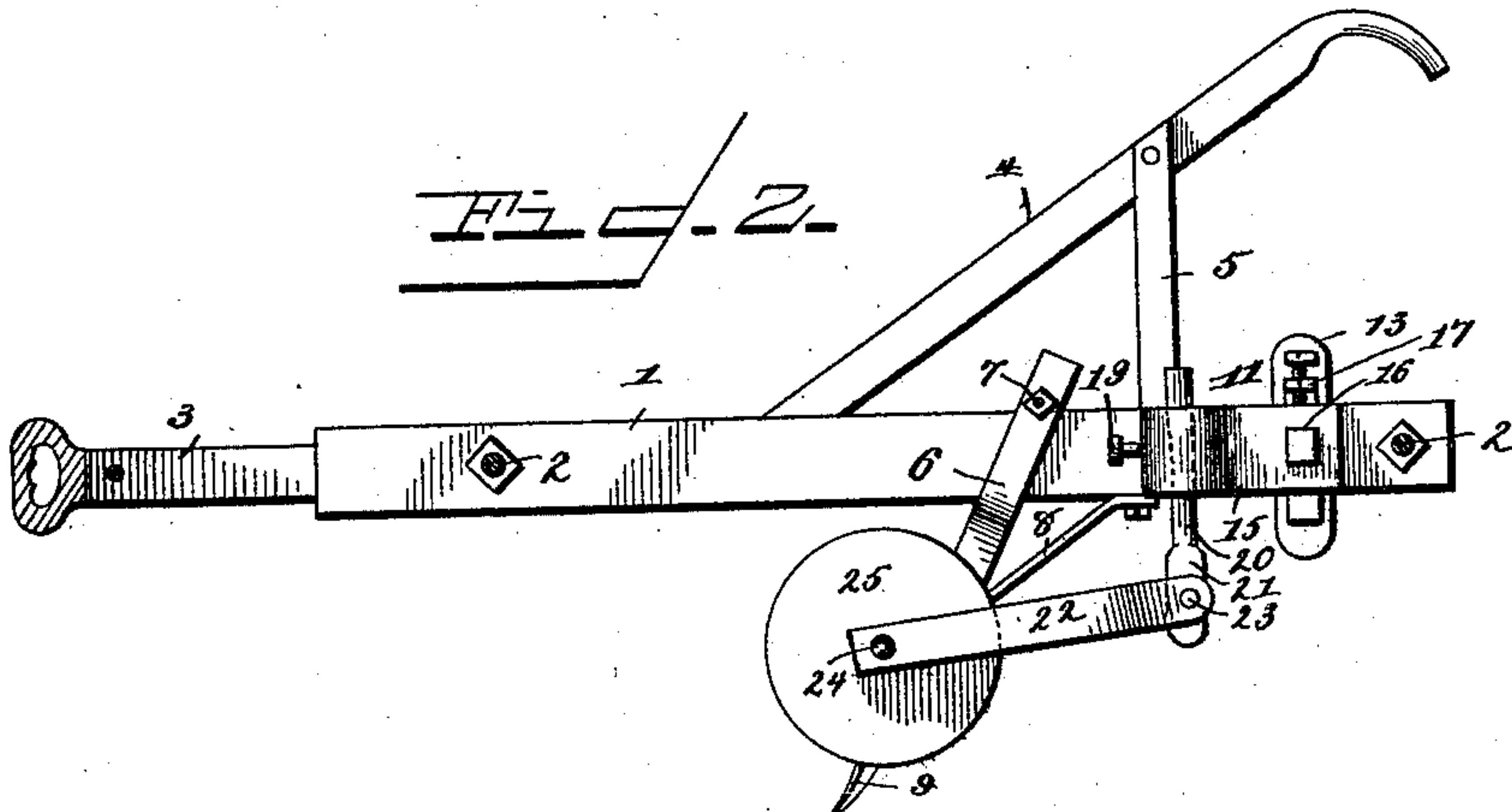
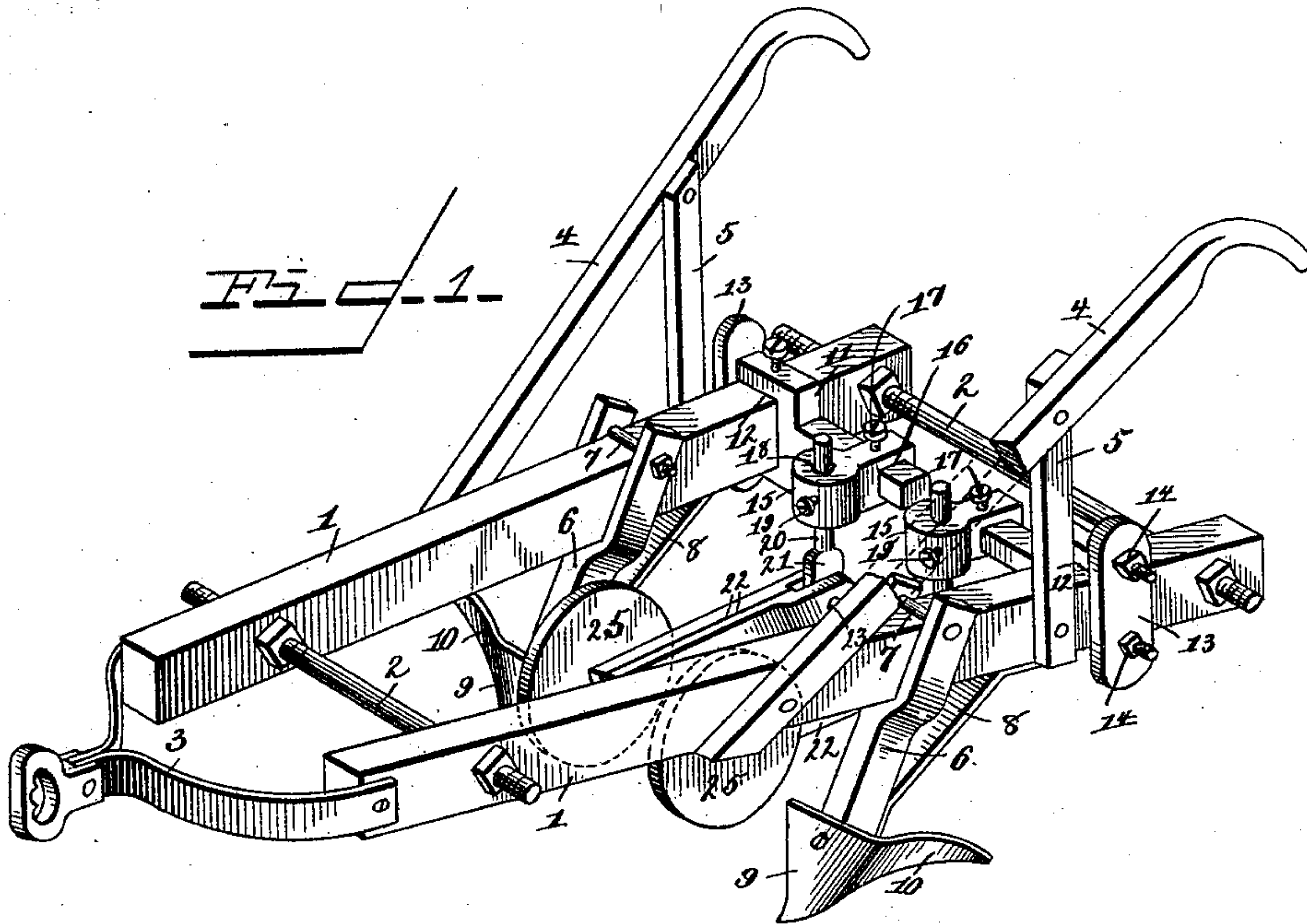


(No Model.)

A. E. WILDER.
CULTIVATOR.

No. 472,416.

Patented Apr. 5, 1892.



Witnesses:

H. G. Dieterich
W. S. Duran

Inventor

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By his Attorneys,

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UNITED STATES PATENT OFFICE.

ATWOOD E. WILDER, OF HOMER, LOUISIANA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 472,416, dated April 5, 1892.

Application filed February 28, 1891. Serial No. 383,231. (No model.)

To all whom it may concern:

Be it known that I, ATWOOD E. WILDER, a citizen of the United States, residing at Homer, in the parish of Claiborne and State of Louisiana, have invented a new and useful Cotton-Cultivator, of which the following is a specification.

My invention relates to improvements in cotton-cultivators; and the objects in view are to provide a cheap and simple cultivator adjustable in its various parts and adapted to cultivate in an efficient manner at each side of rows of cotton and to hill up the same, so as to readily adapt the cotton to be chopped by hoe subsequently thereto and to destroy all weeds, small grass, &c., at each side of the row.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a front perspective of a cotton-cultivator constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a perspective in detail of one of the rotary fenders and its adjustable support.

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

In practicing my invention I in the present instance employ a pair of beams 1, connecting the same at their front and rear ends by tie-bars 2 and at their front extremities by a curved draft-bail 3, to which any ordinary clevis may be applied. Handles 4 are secured rigidly at their front ends to each of the beams 1 and extend rearwardly beyond the rear ends of said beams, being supported by vertical braces 5.

6 designates plow-standards, of which there are two, each being bifurcated at its upper end to embrace a beam 1 and having its bifurcations bolted together, as at 7, above the beams. These standards are braced at their rear sides by inclined braces 8 and carry at their lower ends cultivator-shovels 9, provided at their outer sides with laterally-disposed rearwardly-bent wings 10.

11 designates a pair of arms rectangular in cross-section and each bifurcated, as at 12, at its outer end to embrace a beam 1. The bi-

furcations are threaded at their outer ends, are connected by tie-plates 13, applied to the outer faces of the beams, and are held in place by nuts 14.

15 designates a bracket, of which there are a pair, and each is provided with a transverse rectangular opening 16, adapted to receive the arm 11 and made adjustable thereon by means of a set-screw 17 passing through the bracket and impinging on the arm, and, furthermore, in a vertical bore 18, into which extends the inner end of a set-screw 19. Depending standards 20 are mounted in the vertical bores of the brackets, and may be rotated and adjusted or raised and lowered and adjusted and secured in any of its adjusted positions by means of the set-screw 19, heretofore mentioned. The lower ends of the standards 20 are flattened and shaped into angular heads 21, which are received by the rear bifurcated end of a pair of arms 22, said arms being pivoted to the heads, as at 23. The bottoms of the bifurcations of the arms are inclined, so that said arms have a limited play or vertical swing upon the pivots 23. The outer ends of the arms have journaled upon bearing-pins 24 a pair of roller-standards 25. It will be obvious that by loosening the nuts on the bifurcated ends of the arms said arms, together with the brackets, may be adjusted toward or away from the shovels of the plow, and by loosening the set-nuts 17 the rotary fenders may be moved in or out toward or away from the shovels, and by operating the set-screws 19 the fenders may be swung so as to be inclined with relation to the direction of travel, all as will be apparent.

From the above description it will be seen that I may adjust the fenders 25 to the front or to the rear, and thus regulate the amount of dirt hilled against the plants, as the farther front the fenders are located the less dirt will they throw against the plants. Furthermore, it will be observed that the fenders have a limited motion up and down, so as to easily travel over the swells or other obstructions that may lie in their paths. The wings 10 throw the balance of the dirt to the middle of the furrow, thereby covering up all weeds, grass, &c. It will thus be seen that after a row of cotton has been cultivated by this machine the drill will be left clean from

all small grass, the bed will be cut down to a very small list, and may be easily gone over by hoe-hands, reducing the labor of chopping to a minimum. The wheels may be set at any
5 distance apart, and, in fact, may be applied to a single stock or beam, and thus used in connection with a single cultivator-shovel.

Having described my invention, what I claim is—

10 1. The combination, with the opposite beams, the depending standards, and the shovels, of the arms 11, bifurcated at their ends to embrace the beams, the plates connected to the bifurcations, the nuts threaded
15 on the ends of the bifurcations, the brackets having transverse and vertical bores, the former receiving the arms, set-screws mounted in both bores, the depending standards terminating in rectangular heads, and the bifur-
20 cated arms 22, pivoted to the heads, provided

with bearing-pins, and rotatable fenders mounted on the pins, substantially as specified.

2. In a cultivator, the combination, with the beams and the standards provided with 25 shovels, of the arms 11, adjustable longitudinally along the beams, the brackets 15, adjustable on the arms laterally of the beams, the standards 20, rotatably mounted in the brackets and adjustable, as described, and 30 the arms 22, pivoted to the standards 20 and carrying the fenders 25, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature 35 in presence of two witnesses.

ATWOOD E. WILDER.

Witnesses:

W. F. BRIDGES,
M. NALLE.