

No. 776,995.

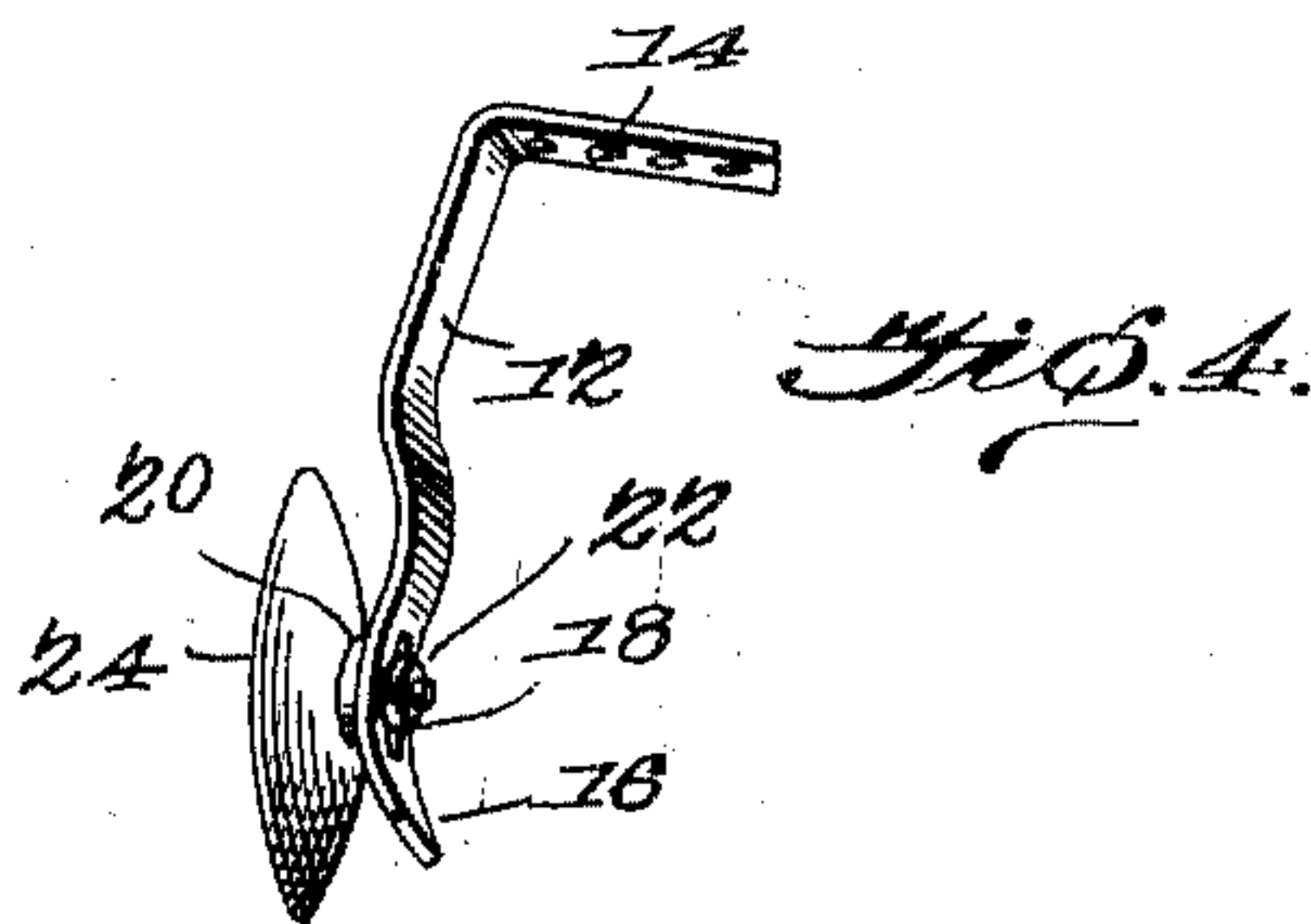
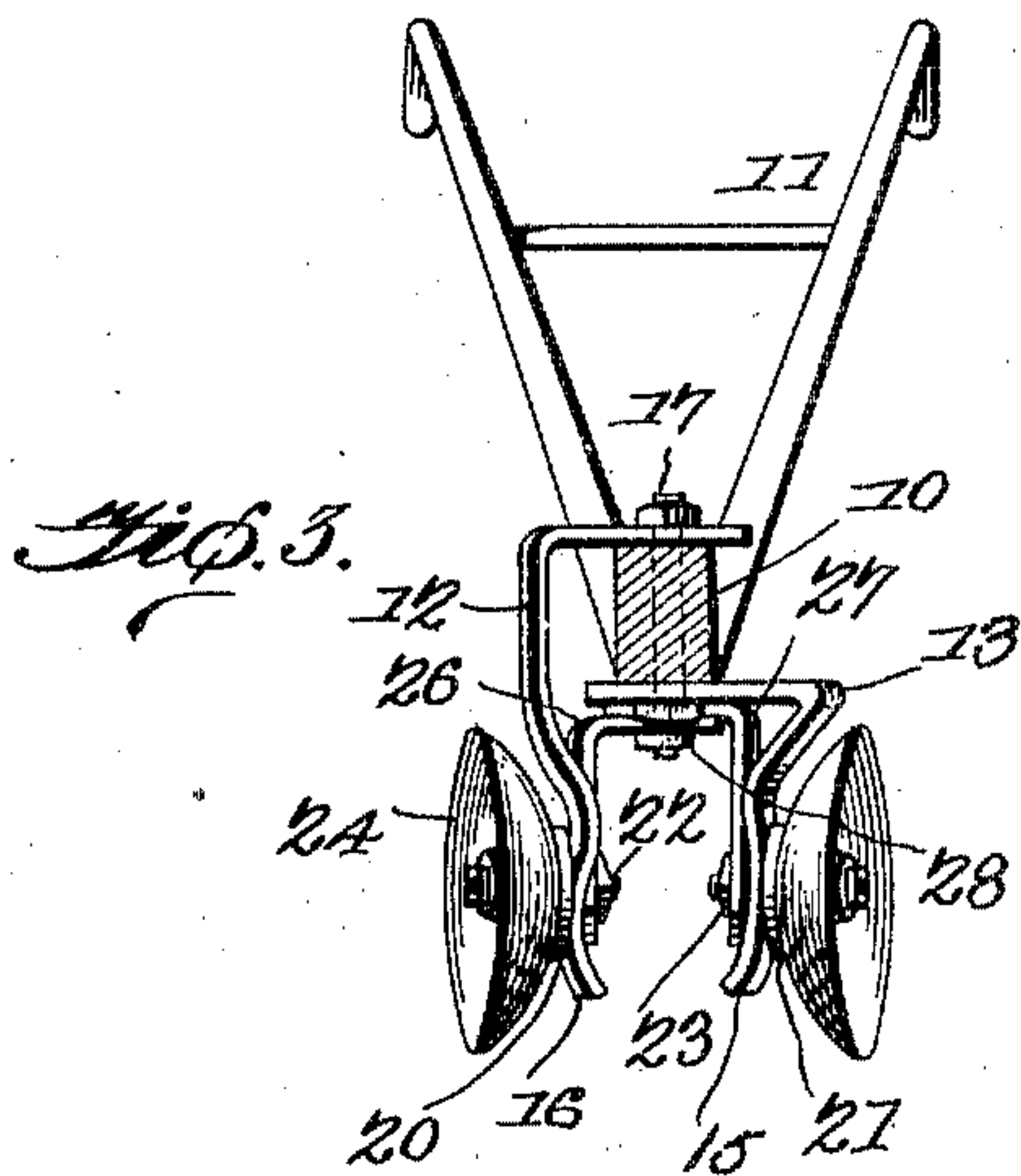
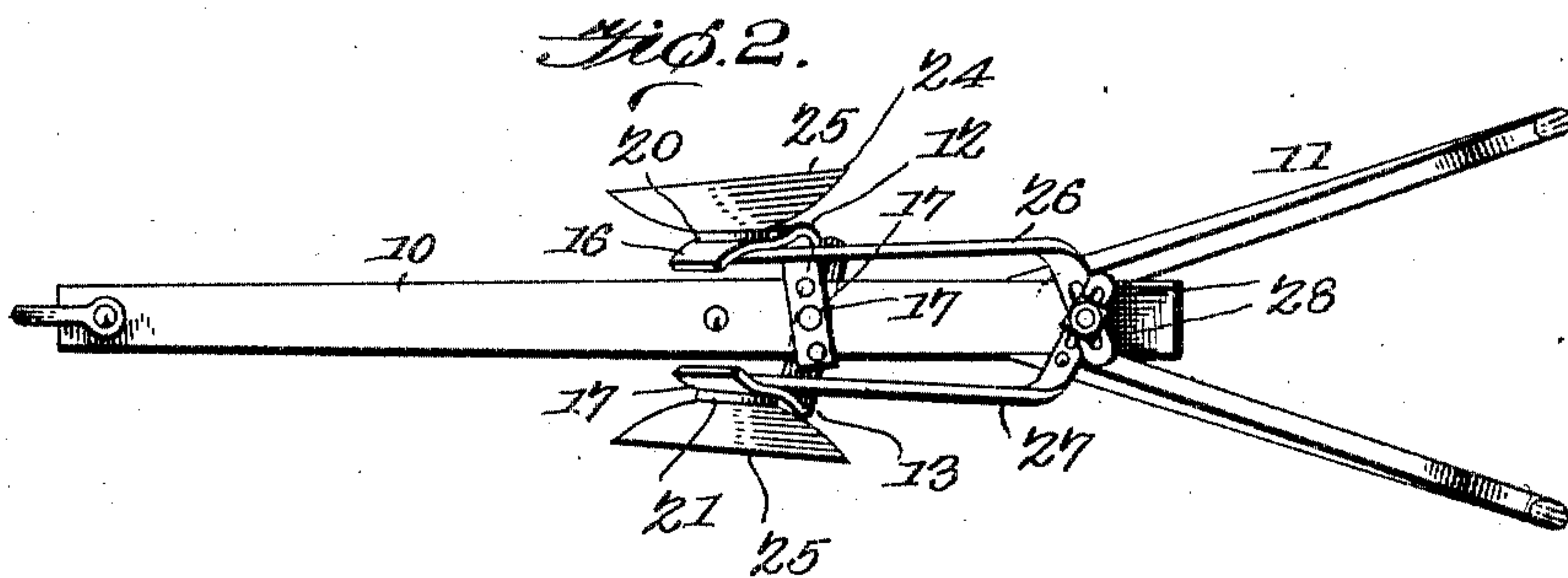
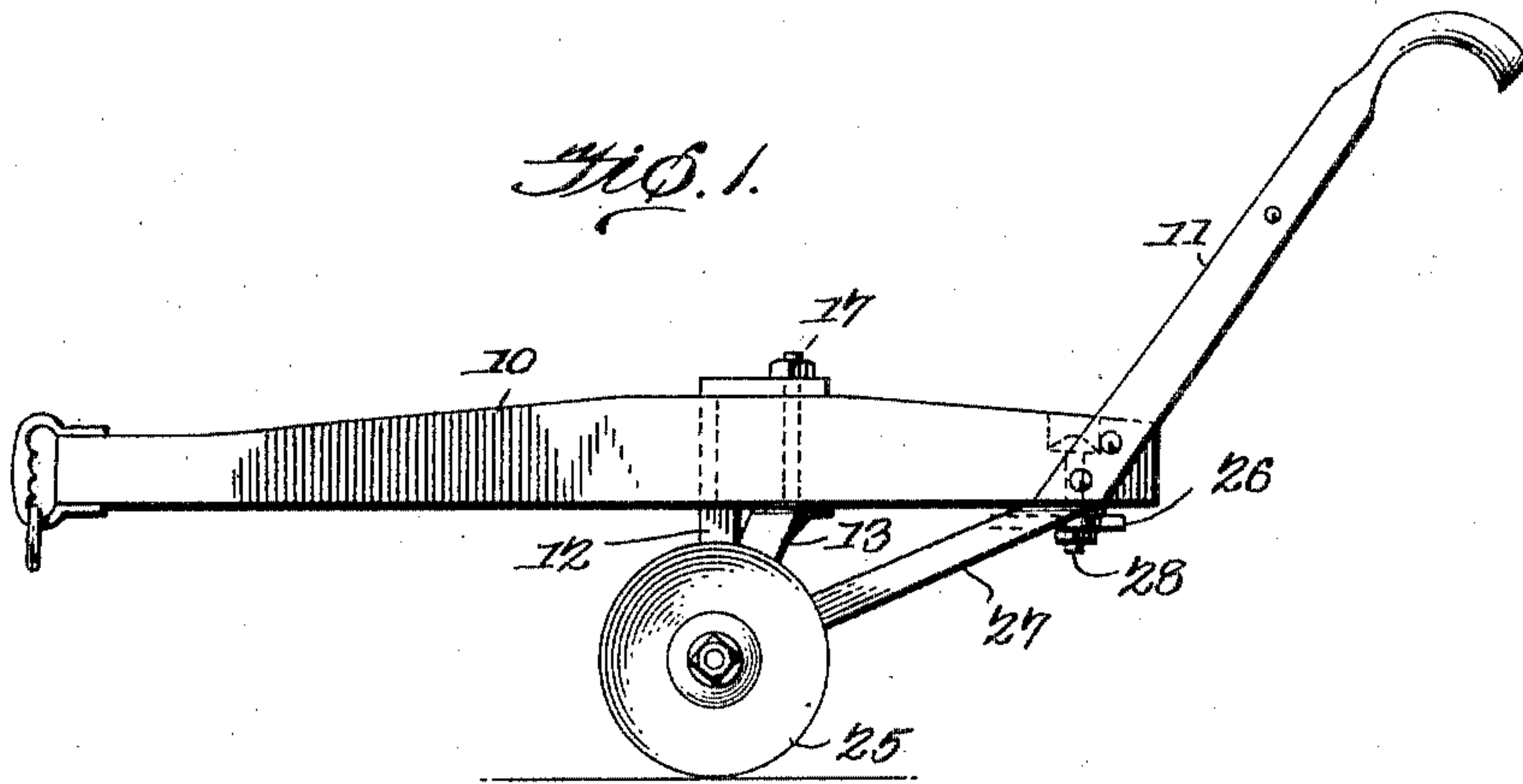
PATENTED DEC. 6, 1904.

W. A. BRYANT & E. C. FAIN.

DISK CULTIVATOR.

APPLICATION FILED MAY 21, 1904.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM A. BRYANT AND EDWARD C. FAIN, OF WETUMPKA, ALABAMA.

DISK CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 776,995, dated December 6, 1904.

Application filed May 21, 1904. Serial No. 209,085. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM A. BRYANT and EDWARD C. FAIN, citizens of the United States, residing at Wetumpka, in the county of Elmore and State of Alabama, have invented a new and useful Disk Cultivator, of which the following is a specification.

This invention relates to cultivators and plows of the class employing disk moldboards, and has for its object to improve and simplify the construction and produce an implement of this character which may be inexpensively manufactured, easily operated, and in which the moldboards may be adjusted in all required directions without change in the structure or removal of any of the parts.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that various changes in the shape, proportions, and general assemblage of the parts may be resorted to within the scope of the claims without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings thus employed, Figure 1 is a side elevation. Fig. 2 is a bottom plan view of the improved implement. Fig. 3 is a front elevation with the draft-beam in transverse section, and Fig. 4 is a perspective view of one of the disk moldboards and its standard detached.

The beam 10 and handles 11 are of the usual form and may be of wood or metal, as preferred. Extending from the beam 10 are oppositely-disposed standards 12 13, having their upper ends bent at right angles and extending above and below the beam, with the extended portions provided with spaced perforations 14 and adapted to be connected to the beam by a single clamp-bolt 17. By this means it will be obvious that the standards

may be adjusted to any desired extent laterally of the beam within the range of the spaced apertures. The standards are converged toward their lower ends and the lower ends curved in segments of circles, as at 15 16, and slotted longitudinally, as at 18, in the segmental portions. Studs 20 21 are adjustably supported in the slots 18 19, as by clamp-nuts 22 23, and the disk moldboards 24 25 are mounted for rotation upon these studs. Brace members 26 27 are connected at their lower forward ends to the inner ends of the studs 20 21 and with their rear upper ends turned at right angles and longitudinally slotted and connected adjustably to the under side of the beam rearwardly of the standards by a single clamp-bolt 28. By this simple arrangement of parts it will be obvious that the moldboards may be adjusted laterally relative to the beams to provide for any required distance between the furrows and also adjusted upon the segmental portions of the standards to regulate the inclination of the disks, and thus control the width of the cut made by the same.

The employment of the bowed lower terminals 15 and 16 of the respective standards having longitudinal slots therein, with the studs of the disks adjustable longitudinally of the slots, is a very important feature of this invention, as the adjustment of the studs in the slots produces changes in the inclination of each disk in a very simple and expeditious manner and avoids complicated adjusting means heretofore employed. The work of the disks may thus be easily controlled by the adjustments of only three clamp-bolts, thereby securing all the desired results in a very simple and easy manner and without detaching any of the parts or disarranging any of the mechanism.

The device is very simple and inexpensive in construction and may be employed for all work requiring an implement of their class and will be especially adapted in cultivating cotton, corn, and similar crops.

We claim—

1. In an implement of the class described, a draft-beam, oppositely-disposed standards having segmental terminals provided with

longitudinal slots and connected for lateral adjustment to said beam, studs adjustably mounted in said slots and disk moldboards mounted for rotation upon said studs.

5 2. In an implement of the class described, a draft-beam, oppositely-disposed standards having segmental terminals provided with longitudinal slots at one end and with the other ends extended respectively above and below
10 the beam and provided with spaced apertures, a clamp-bolt to adjustably connect the standards to the beam, studs adjustably mounted in said slotted terminals, and disk moldboards mounted for rotation upon said studs.

15 3. In an implement of the class described, a draft-beam, oppositely-disposed standards having segmental terminals provided with longitudinal slots and connected for lateral adjustment to said beam, studs adjustably
20 mounted in said slots, disk moldboards carried by the studs, and brace members connected terminally to said studs and with their other ends connected for lateral adjustment to said beam.

25 4. In an implement of the class described, a draft-beam, oppositely-disposed standards having segmental terminals provided with longitudinal slots and connected for lateral adjustment to said beam, studs adjustably
30 mounted in said slots and rotatively supporting disk moldboards, and brace members terminally connected to said studs and with their other ends disposed across the beam and provided with longitudinal slots, a clamp-bolt ex-
35 tending through the slots and the beam to adjustably connect the brace members to the latter.

40 5. A device of the class described including a standard having a longitudinal bowed portion, and a cultivator-disk carried by said

bowed portion and adjustable longitudinally thereof to vary the inclination of the disk.

6. A device of the class described including a standard having a longitudinal bowed portion provided with a longitudinal slot, and a
45 cultivator-disk having a stud fitted in the slot and adjustable in the direction of the length thereof to vary the inclination of the disk.

7. An attachment for cultivators comprising a standard having a transversely-disposed
50 upper end portion for connection with a beam and its lower end provided with a longitudinal slot, a cultivator-disk having a stud adjustable in the slot of the standard, and a brace connected to the stud and inclined rearwardly
55 and forwardly therefrom with its rear end portion disposed transversely for connection with a beam.

8. An attachment for cultivators comprising a standard having its upper end portion
60 disposed transversely for connection with a beam and its lower end portion bowed longitudinally and provided with a longitudinal slot in the bowed portion, a cultivator-disk applied to the convexed side of the bowed portion of
65 the standard and provided with a stud adjustable in the slot of the standard, and a brace connected to the stud at the concaved side of the standard and inclined upwardly and rear-
70 wardly therefrom with its rear end portion disposed transversely for connection with a standard.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

WILLIAM A. BRYANT.
EDWARD C. FAIN.

Witnesses:

H. R. PENICK,
M. HOHENBUG.