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PATENTED APR. 9, 1907.

J. J. YOUNG.
CULTIVATOR ATTACHMENT.
APPLICATION FILED NOV. 27, 1906.

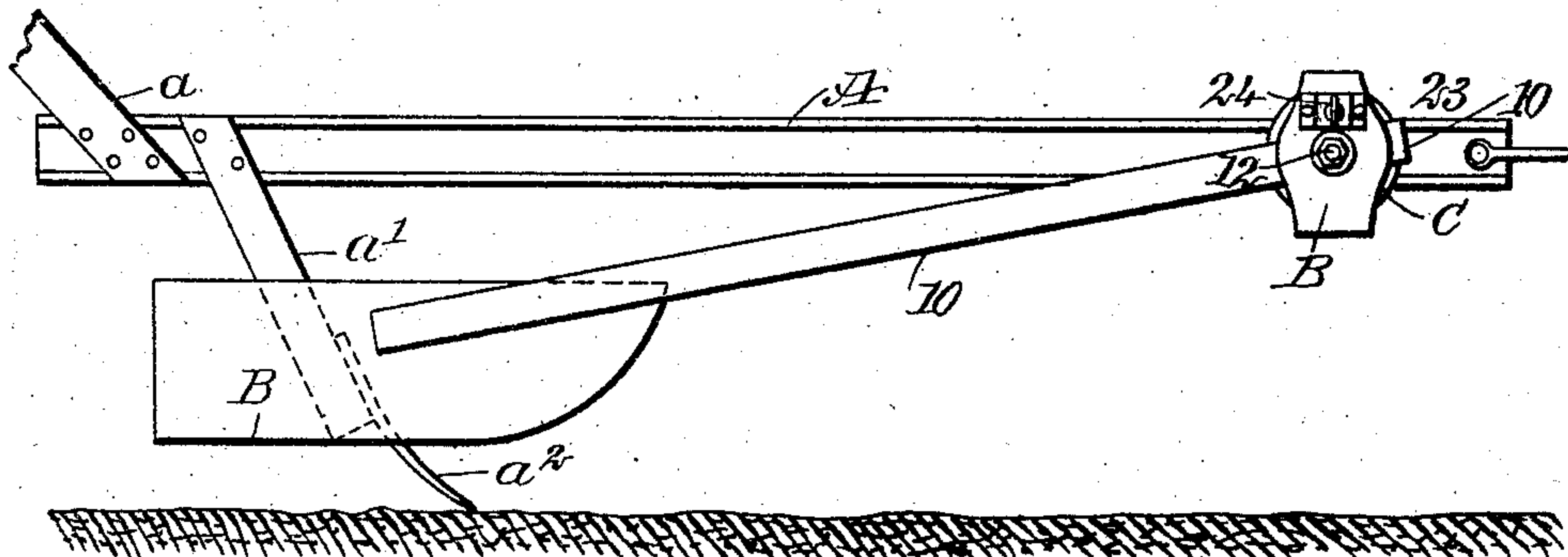


Fig. 1

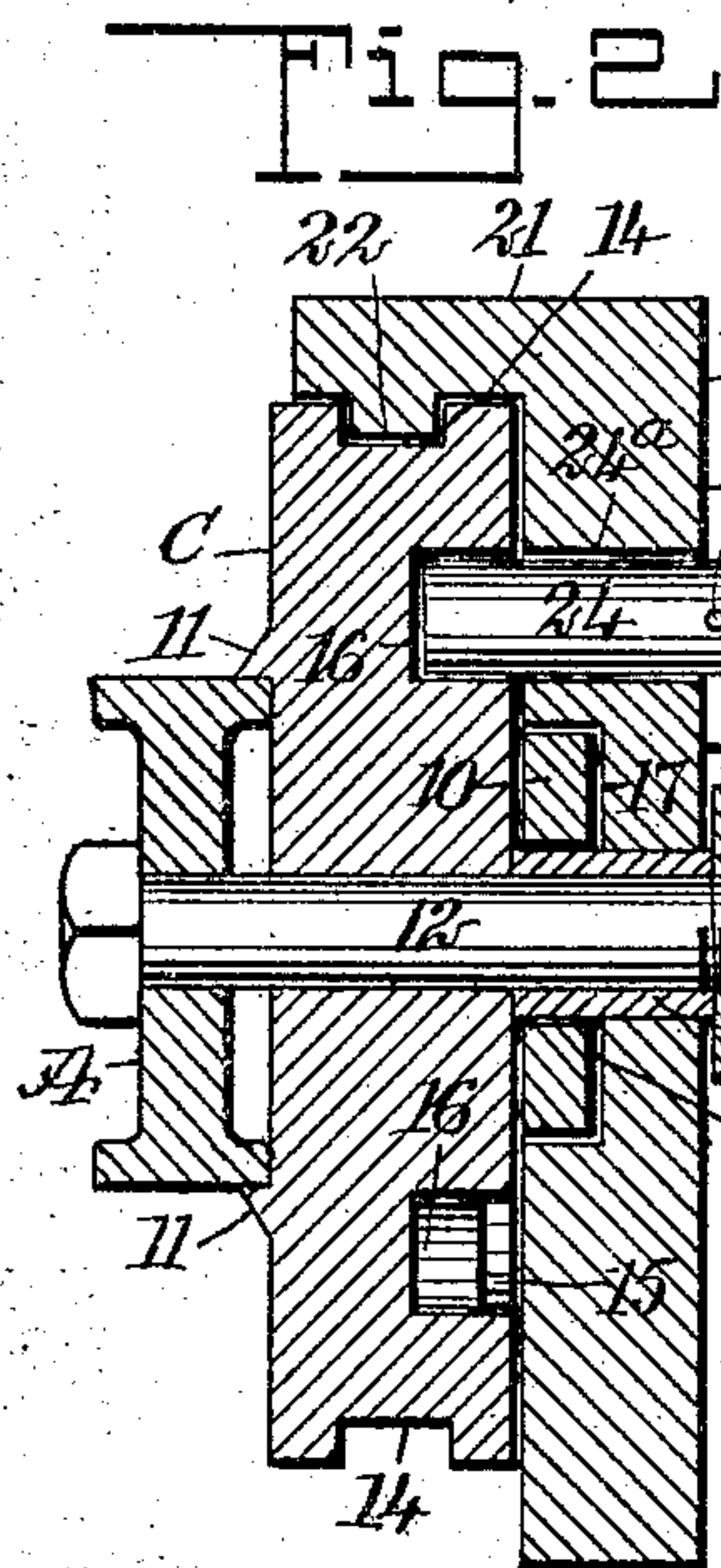


Fig. 2

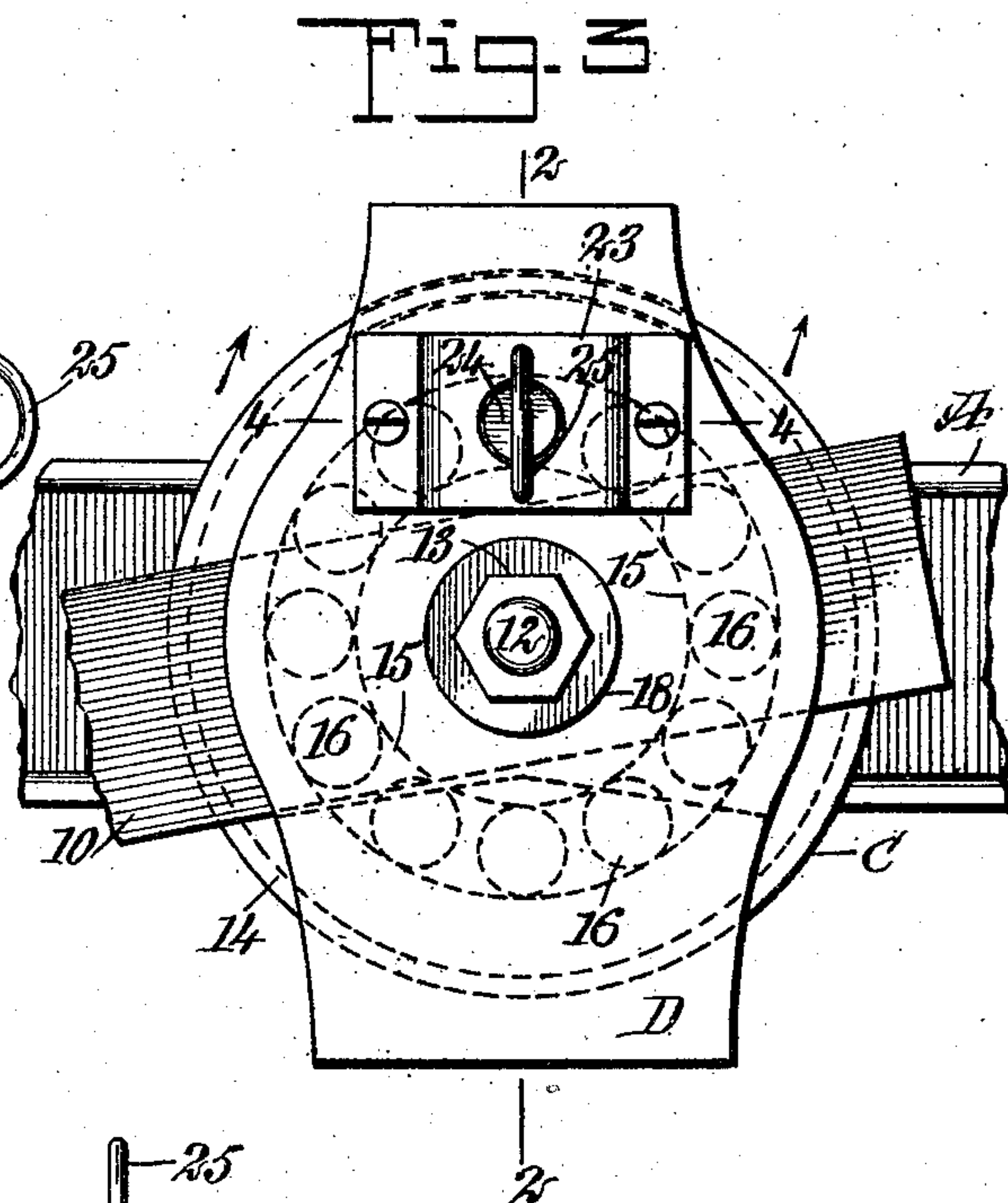


Fig. 3

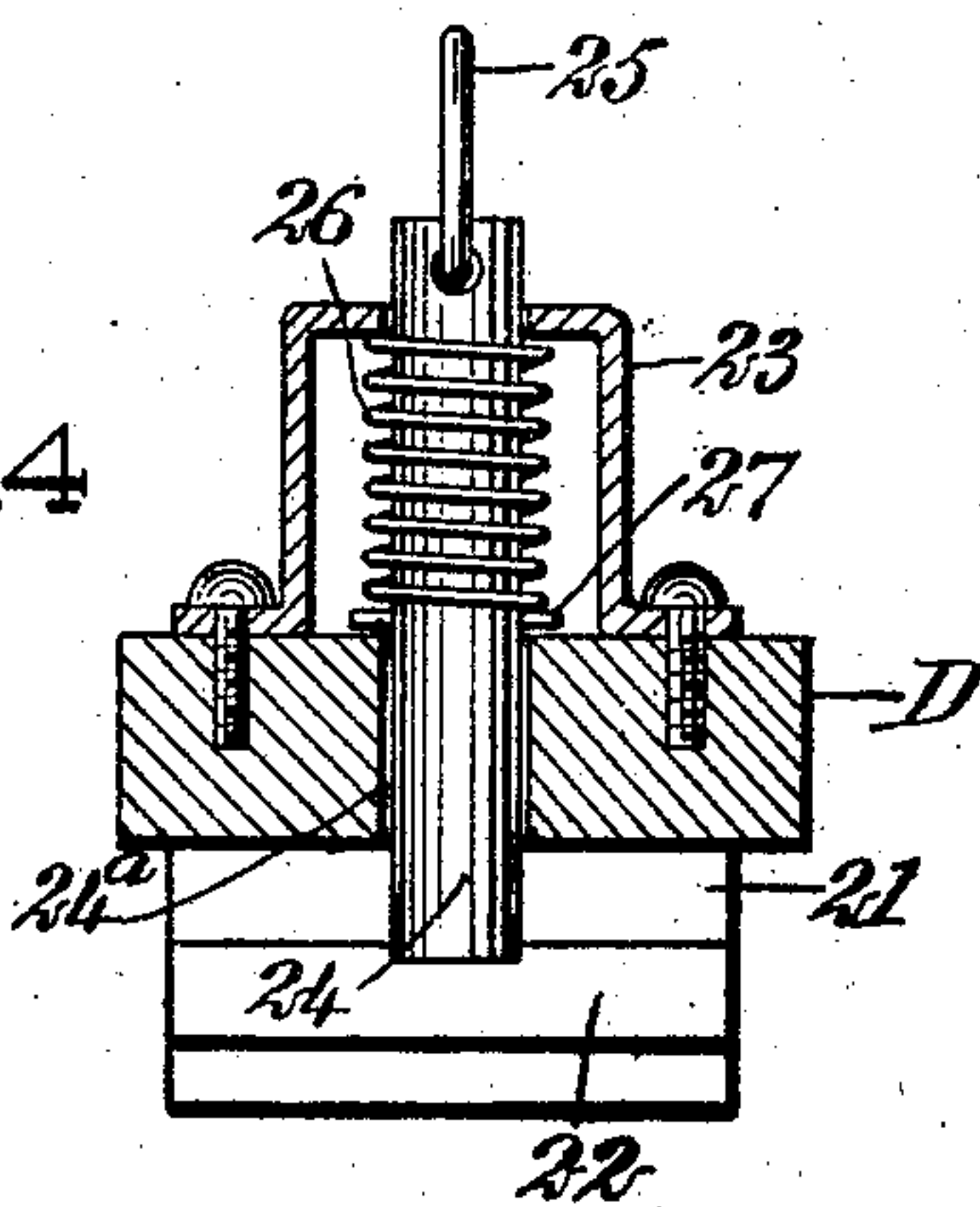


Fig. 4

WITNESSES

J. A. Brophy
L. H. Ficker

INVENTOR

John J. Young
BY *Mum & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN JAMES YOUNG, OF DENVER, COLORADO.

CULTIVATOR ATTACHMENT.

No. 849,956.

Specification of Letters Patent.

Patented April 9, 1907.

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To all whom it may concern:

Be it known that I, JOHN JAMES YOUNG, a citizen of the United States, and a resident of Denver, in the county of Denver and State of Colorado, have invented a new and Improved Cultivator Attachment, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide an attachment for cultivators adapted for convenient adjustment of the fenders or shields employed on corn-cultivators and cultivators of like type to protect the young plants during cultivation, and to so construct the attachment that it may be applied to the beam of any cultivator and so that the said shields or fenders can be expeditiously and quickly adjusted up or down on the arc of a circle as occasion may demand and be held firmly in adjusted position.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a portion of a cultivator and the improved fender-adjusting attachment applied. Fig. 2 is an enlarged vertical section through the attachment, the section being taken substantially on the line 2 2 of Fig. 3. Fig. 3 is an enlarged outer side elevation of the attachment and a portion of the beam to which the attachment is applied; and Fig. 4 is a horizontal section through the adjusting member of the attachment, the section being taken practically on the line 4 4 of Fig. 3 looking in direction of the arrows.

A represents the beam of the cultivator, which may be of any desired type, the cultivator illustrated being shown as provided with handles *a*, shank *a'*, and a shovel *a''*, carried by the shank, and B represents a shield or fender, which also may be of any desired type and may be employed in the customary manner, the said shield or fender being provided with a supporting-arm 10, that extends upward and forward in direction of the forward end of the beam A.

The attachment consists practically of a disk-body C and an adjusting member D, hav-

ing rotary movement upon the disk-body. The disk-body C is adapted to remain stationary and to that end is provided with lugs 11 at its back, the lugs engaging with the top and the bottom surfaces of the beam A. The disk-body C is further held in position on the beam by means of a bolt 12, passed through the beam and through a suitable opening in the center of the disk-body, the said bolt extending some distance beyond the outer face of the said disk-body, being provided at its outer end with a suitable nut 13.

The disk-body C is provided with a peripheral groove 14 and likewise with an annular groove 15 in its outer or front face, the groove 15 being a concentric one, as is shown by dotted lines in Fig. 3, and in the rear wall of this groove 15 a series of apertures 16 is produced, as is shown in Figs. 2 and 3.

The adjusting member D is preferably given a segmental central formation, the top and bottom being usually more or less straight or elongated, as is shown in Fig. 3, and in the inner face of the adjusting member D of the attachment a recess 17 is produced, said recess being rectangular or polygonal. The recess 17 receives the forward end of a supporting-arm 10 of the fender or shield B, as is particularly shown in Figs. 1, 2, and 3.

A sleeve 18 is loosely passed through the central opening in the adjusting member D and through an opening 19 in that portion of the shield-supporting arm located within said adjusting member, as is shown in Fig. 2, and usually a washer 20 is located between the nut 13 on the bolt 12 and the outer end of the said sleeve 18, so that as the adjusting member D is rotated on the bolt 12, which acts as a pivot therefor, the shield or fender B is raised or lowered.

The adjusting member D is guided in its circular movement by producing at what is normally its upper end a horizontal rearwardly-extending projection 21, having a rib or tongue 22 formed thereon adapted to enter and have movement in the peripheral slot 14 of the disk-body C, as is particularly shown in Fig. 2.

Near the upper end of the adjustable member D a yoke 23 or its equivalent is located upon the outer face of said adjusting member D, and in said yoke a bolt 24 is mounted to slide, which bolt likewise passes through an opening 24^a in the adjustable member D and

is made to enter the annular groove 15 in the front face of the disk-body C, so that as the adjustable member D is turned the bolt 24 will enter one or the other of the apertures 16, so as to hold the shield or fender in the position to which it may have been adjusted.

The bolt 24 is provided with a knob or handle 25 at its outer end, so that it can be readily moved, said handle being in the form of a ring, as illustrated, and the said bolt 24 is spring-controlled, a spring 26 being coiled around the bolt within the yoke 23, having bearing against a pin 27 on the bolt and against the inner surface of the front member of the yoke, as is illustrated in both Figs. 2 and 4.

It is evident that the device may be attached to any beam and that it can be quickly and conveniently adjusted to raise or to lower a fender or shield or other article that may be connected with its adjustable member and that the device is also of durable, exceedingly simple, and economic construction.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A cultivator attachment, comprising a disk-body provided with a series of sockets in one of its faces, an adjusting member mounted to turn upon the disk-body which adjusting member is provided with a recess in its inner face to receive an arm, and a spring-controlled locking device carried by the adjusting member and adapted to engage either of said sockets in the disk-body.

2. A cultivator attachment, comprising a disk-body, means for securing the disk-body to a beam of the cultivator, said disk-body being provided with a series of circularly-arranged apertures in one of its faces, an adjusting member mounted to turn on the apertured face of the disk-body, said adjusting member having an opening adapted to receive an arm, and a bolt carried by the said adjusting member, which bolt is adapted to enter any of the apertures in the disk-body.

3. A cultivator attachment, comprising a disk-body, said disk-body being provided with a series of circularly-arranged apertures in one of its faces, an adjusting member mounted to turn on the apertured face of said disk-body, which adjusting member is provided with an opening in its inner face to receive an arm, a bar or the like, means for securing the disk-body to a cultivator-beam, means for guiding the adjusting member relatively to the disk-body, and a spring-controlled bolt carried by the adjusting member, which bolt is adapted to enter any of the apertures in the disk-body.

4. In a cultivator attachment, the combination with a disk-body, means for securing the same to a cultivator-beam, said disk-body being provided with an annular groove in its outer face and apertures in its grooved

portion, said disk-body being further provided with a peripheral groove, of an adjusting member mounted to revolve on the apertured face of the disk member, said adjusting member being provided with an opening for the reception of an arm, a bar or the like, a projection from an end of the adjusting member, having a rib thereon to enter the peripheral groove of the disk-body, and a spring-controlled bolt carried by the adjusting member, the inner end of which bolt enters the annular groove in the disk-body and is adapted to enter any aperture in said grooved portion of said disk-body.

5. The combination with a cultivator-beam, a shield or fender and a supporting-arm extending from said shield or fender, of a disk-body secured to the said beam, which body is provided with a peripheral groove and with an annular groove in its outer face, and apertures in the rear wall of said groove, an adjusting member mounted to turn on the apertured face of the disk-body, said adjusting member being provided with an opening to receive said supporting-arm, means for guiding the adjusting member in its movement relatively to the disk-body, and a spring-controlled bolt carried by the adjusting member, which bolt enters the annular groove in the disk-body and is adapted to enter any one of the apertures in the rear wall of said groove.

6. The combination with a cultivator-beam, a shield or fender and a supporting-arm extending from said shield or fender, of a disk-body, a bolt extending through the cultivator-beam and the disk-body and extending beyond the face of the disk-body, an adjusting member provided with a recess to receive said supporting-arm, a sleeve on the projecting portion of the bolt and passing through registering openings in the adjusting member and the said supporting-arm, the said sleeve bearing at its inner end against the disk-body, means on the bolt for engaging the outer end of said sleeve, and means for locking the adjusting member in different positions relatively to the disk-body.

7. A cultivator attachment comprising a disk-body, means for securing the disk-body to a beam of the cultivator, said disk-body being provided with a series of sockets in one of its faces, an adjusting member mounted to turn upon the said face of the disk-body and provided with a recess to receive an arm, a yoke on the outer face of the said adjusting member, and a bolt mounted to slide in said yoke and passing through an opening in the adjusting member, the said bolt being adapted to engage either of the said sockets in the disk-body.

8. A cultivator attachment comprising a disk-body provided with a peripheral groove, an adjusting member mounted to turn upon one of the faces of the disk-body, and having

a projection at one end provided with a rib adapted to enter said peripheral groove, the said adjusting member being provided with a recess in its inner face to receive an arm, and
5 means for locking the adjusting member in different positions relatively to the said disk-body.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN JAMES YOUNG.

Witnesses:

GEORGE I. REDD,
CURTIS S. REDD.