No. 886,190. PATENTED APR. 28, 1908.

J. F. DEAL.

CULTIVATOR.

APPLICATION FILED NOV. 19, 1906.

Fig. 1.

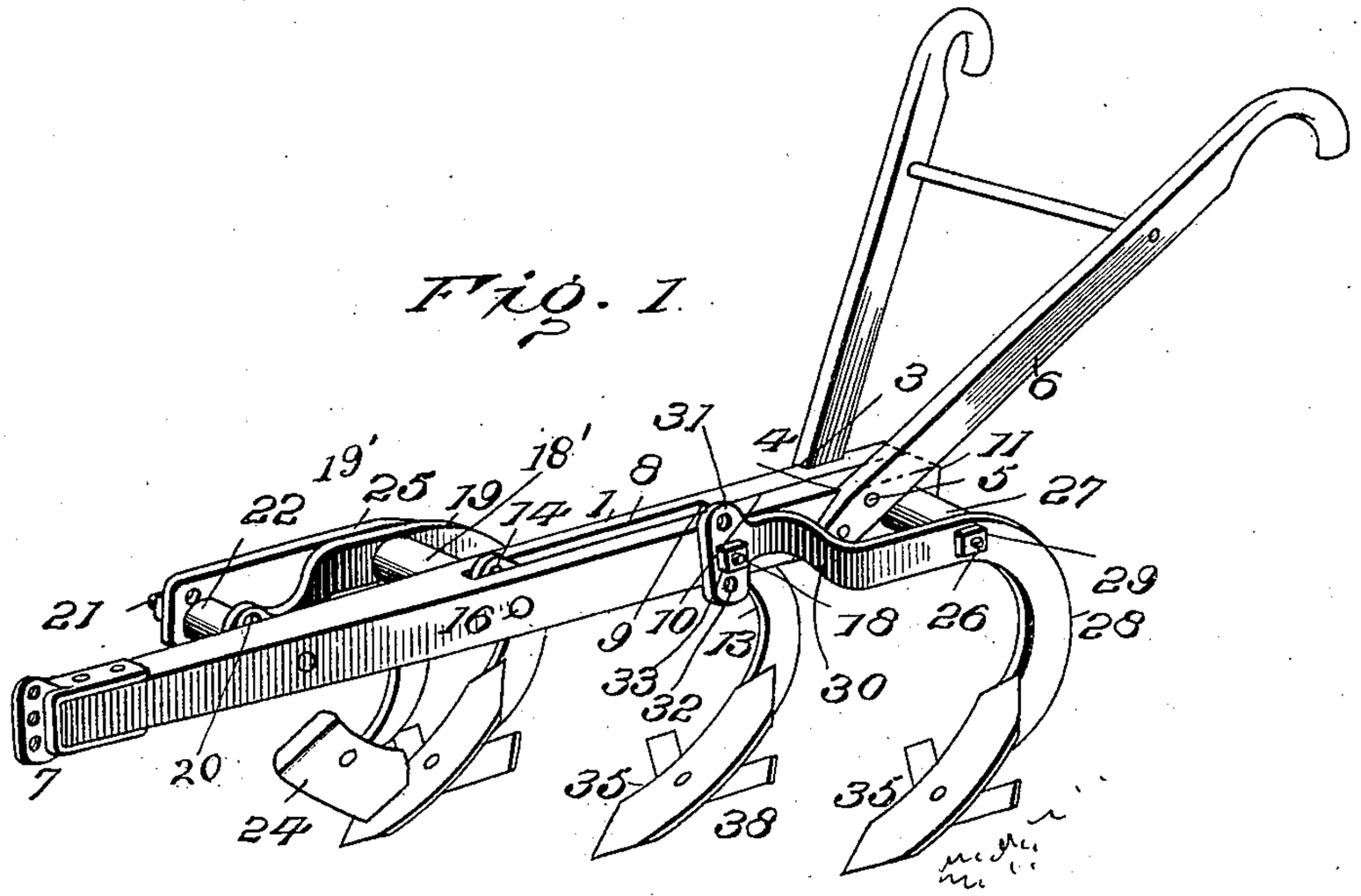


Fig. 2.

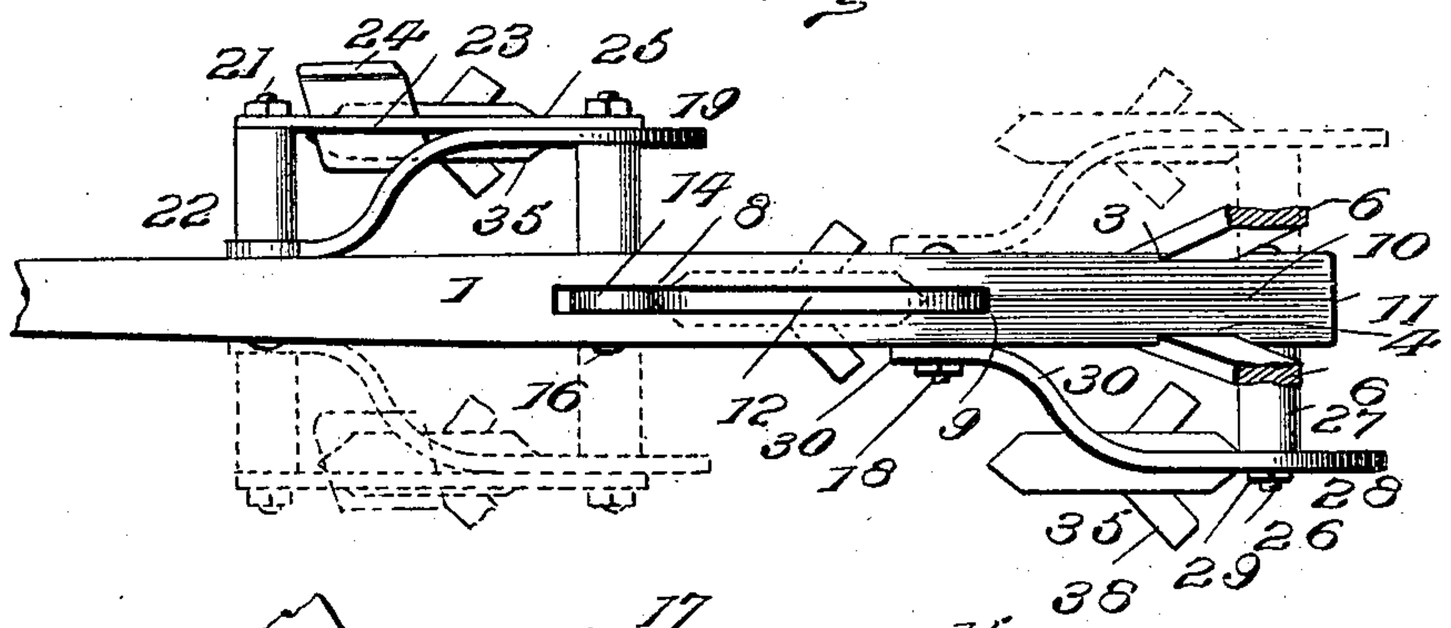
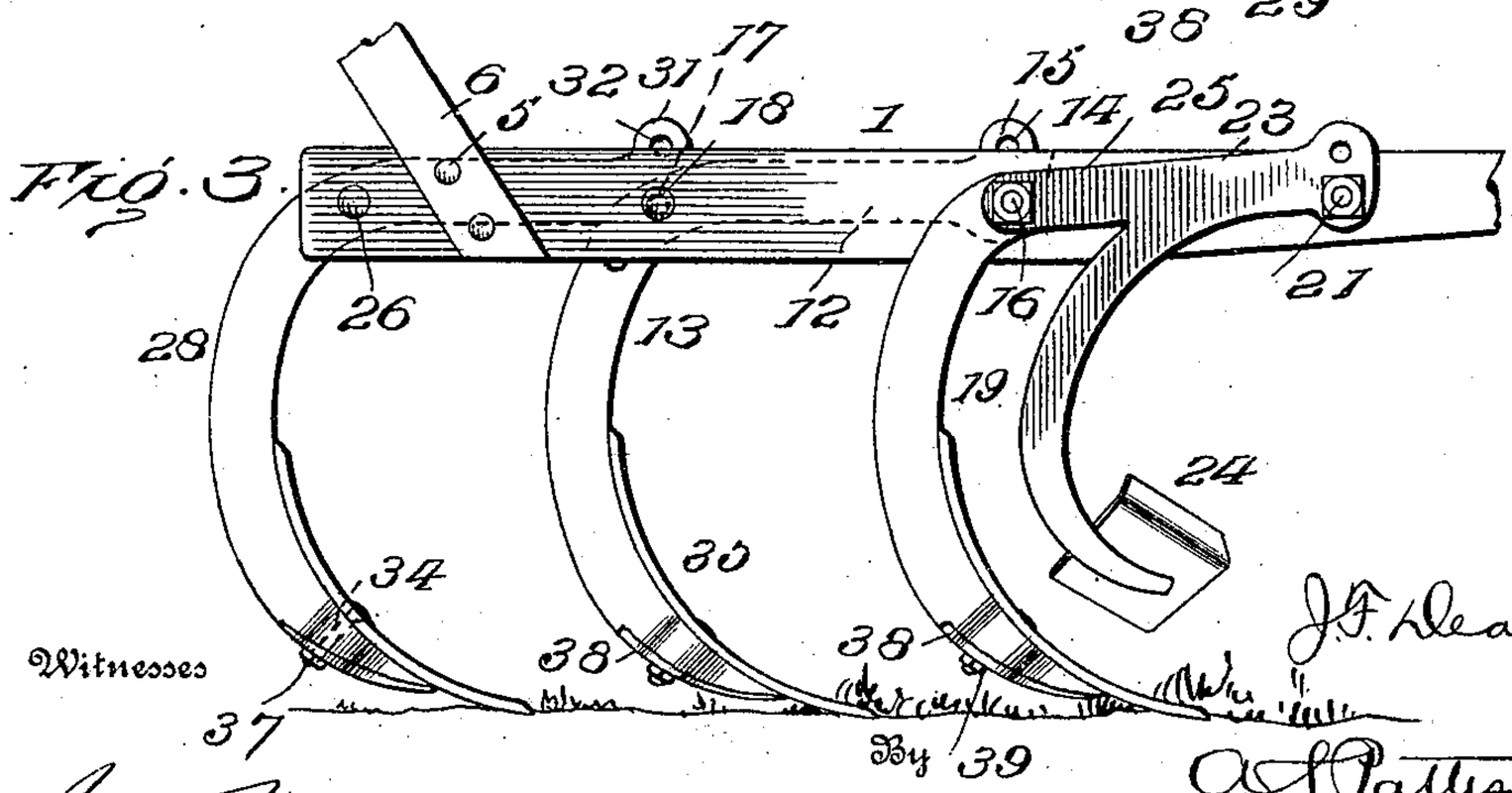


Fig. 3.



Witnesses

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JACOB F. DEAL, OF TILTON, GEORGIA.

CULTIVATOR.

No. 886,190. Specification of Letters Patent. Patented April 28, 1908.

Application filed November 19, 1906. Serial No. 344,110.

To all whom it may concern:

Be it known that I, JACOB F. DEAL, a citizen of the United States, residing at Tilton, in the county of Whitfield and State of Georgia, have invented certain new and useful Improvements in Cultivators, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in cultivators.

The object of my invention is to provide a cultivator of the character described, in which the plow points are readily adjusted at the desired angle, and in which the standards are reversible in respect to the plow beam, whereby a right or left hand cultivator may be readily formed by changing the standards from one side of the beam to the other.

Another object of my invention is to provide a simple, cheap and effective plow beam, whereby the standards are readily attached or detached, as desired, all of which will be fully described.

In the accompanying drawings, Figure 1, is a perspective view of my improved cultivator. Fig. 2, is a top plan view of Fig. 1 showing in dotted lines the standards in a reversed position to form a left hand cultivator. Fig. 3, is a side elevation partly broken away looking from the opposite side from that of Fig. 1.

In the accompanying drawings, 1 represents a plow beam which, as shown, is of an elongated form, and made of wood. The rear end 2 thereof on opposite sides is provided with the obliquely arranged recesses 3 and 4 in which are bolted, by means of bolts 5, the upwardly-extending handles 6 which are of the usual form used on cultivators of the character described. The forward end of the beam is provided with a clevis 7 of any form, as this forms no part of my invention.

The beam 1 intermediate its ends is provided with a vertically-arranged elongated slot 8 which extends entirely through the beam from the upper to the lower edge, as shown. This slot 8 as shown, is centrally located in respect to the side, and extending from the rear wall 9 of the slot is a vertical cut or slit 10 which extends entirely through the beam and through the end 11 of the beam, and thus making the slot 8 so that it can be slightly opened by the slit or cut 10, and thus having a clamping action on the standard within the slot 8, as hereinafter more fully described.

The slot 8, as before stated, is of an elongated form, and extending therein is the horizontal portion 12 of the standard 13. The forward end of said horizontal portion is provided with an enlarged segmental portion 14 which is provided with a series of openings 15, and passing transversely through the beam and one end of said openings is a bolt 16. The said portion 12 adjacent the opposite end is provided with an opening 17, and passing transversely through the beam and the opening 17 is a belt 18 which forms the fulcrum point upon which the standard 13 rocks while the opposite end forms the holding and adjusting means.

The bolt 16, as before stated, serves as the adjusting and holding means for the standard 13, and the said bolt extends considerably beyond the plow beam and has an elongated sleeve 18′ surrounding the same, and pivotally mounted on said bolt beyond the sleeve is a second standard 19, and thus the said bolt serves as a fulcrum for the said arm. The said standard extends forward and has its end drawn inwardly, as shown, so that it extends against the side of the beam. This portion is enlarged into a segmental portion 19′ having a series of openings 20 by means of which the arm is adjusted for arranging the angles of the cultivator teeth. Passing transversely through the beam is a bolt 21 which passes through one of the series of openings 20. Said bolt extends a considerable distance outwardly beyond the beam, and mounted thereon is a sleeve 22, and carried by the bolt on the outside of the sleeve is an arm 23 which is curved, and extends downwardly and has attached thereto a scraper or weed cultivator 24. The arm 23 has a rearward extension 25 through which the bolt 16 passes, and by means of which the same is rigidly attached to the plow beam.

Passing transversely through the plow beam from the side to that of the bolt, 16, is a bolt 26 which is provided with a sleeve 27, and said bolt passes through an opening in the standard 28 and a nut 29 secures the same thereon. The said standard has an extended portion 30 which is bent inwardly and provided with an enlarged portion 31 provided with a series of openings 32 through one of which the bolt passes, and has a nut 33

for locking said arm thereon, and at the same time the bolt forms a fulcrum point for the central standard 13.

As shown in Fig. 1, the standards are arranged to form a right hand cultivator, and either the forward or rear standard can be removed for forming a cultivator with two teeth, or the central standard can be removed, making a two-plow cultivator. When it is desired to form a left hand cultivator, the rear standard 28 is removed and the bolts at the forward end are reversed, and the said standard placed thereon, while the forward standard is moved backward and the rear bolts passed through from the opposite direction and the same secured thereon in the same manner as that shown in Fig. 1 By this construction and arrangement of parts, the forward plow point will be on the left of the beam, while the rear point will be on the right of the machine.

The standards, as shown, are curved and are provided with an opening 34, and resting against the forward end of the standard are the cultivator teeth 35 which, as shown, have double points and are curved to correspond with the standards. Said teeth are provided with central openings and passing through said openings and the openings in the standards are bolts 37 by means of which the cultivator teeth are secured to the standards. Mounted upon the bolts at the rear of the standards, are the heel sweeps 38, and on the underside of said sweeps are the nuts 39 by means of which they are clamped to the standards, together with the cultivator teeth.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:—

1. A cultivator comprising a beam having a central elongated slot therein intermediate its ends, and said beam having a vertical cut extending from the rear wall of the slot through the end of the beam, a standard having a horizontal portion within the slot, a horizontal bolt passing through the forward end of the slot and through the standard and adapted to form the pivot of a standard on the outside of the beam, and a second bolt passing through the beam opposite the rear end of the slot and through the standard and adapted to secure the forward end of another standard on the outside of the beam, and a bolt passing through the rear split end of the beam and holding the beam together and forming a pivot for the standard.

2. A cultivator comprising a beam having a central elongated slot therein intermediate its ends, and said beam having a vertical cut extending from the rear wall of the slot through the rear end of the beam, a standard having a horizontal portion within the slot, the forward end of the horizontal standard having a segmental series of openings arranged in its forward end, a bolt passing through the beam and through one of the series of openings in the standard, and adapted to form the pivot of a second standard on the outside of the beam, a second bolt passing through the beam opposite the rear end of the slot and through the standard and forming the pivot of said standard and adapted to secure the forward end of a third standard on the outside of the beam, and a bolt passing through the rear split end of the beam and holding the beam together and said bolt adapted to form the pivot of the third standard on the outside of the beam.

In testimony whereof I affix my signature in presence of two witnesses.

JACOB F. DEAL.

Witnesses:
W. C. GROVES,
JOHN F. CARNEY.