May 8, 1934.

R. BLOODWORTH

1,957,991

CULTIVATOR STOCK

Filed July 10, 1933

2 Sheets-Sheet 1

Fig. 3.

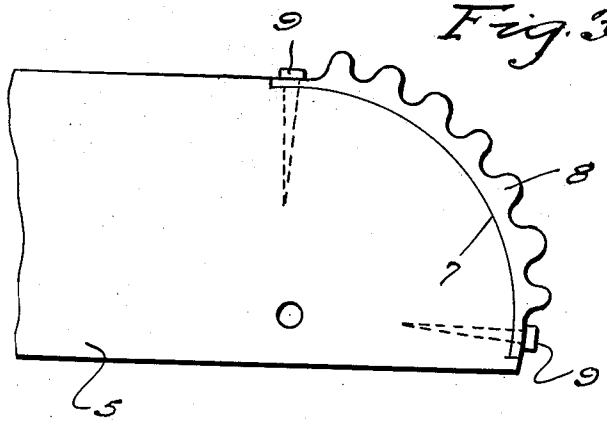


Fig. 1.

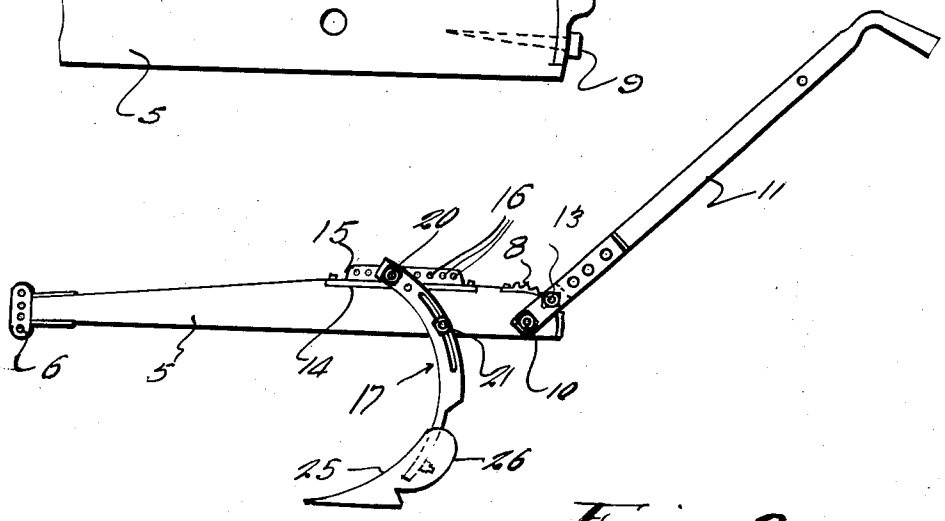
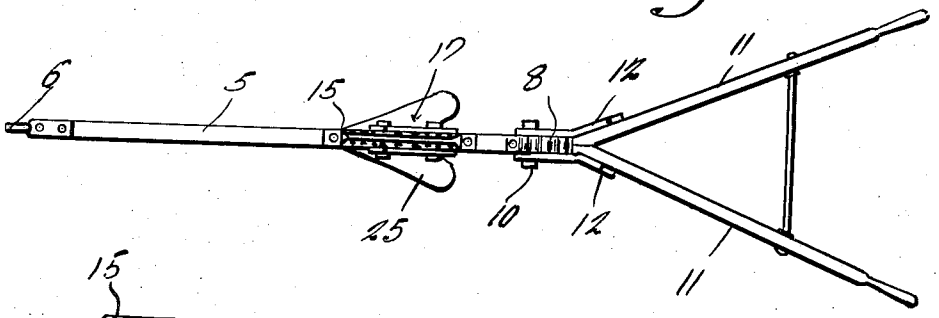


Fig. 2.



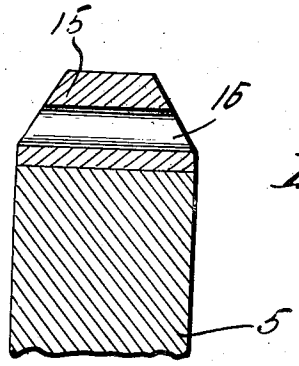


Fig. 5.

Inventor

Rainie Bloodworth

By Clarence A. O'Brien

Attorney

May 8, 1934.

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Fig. 4.

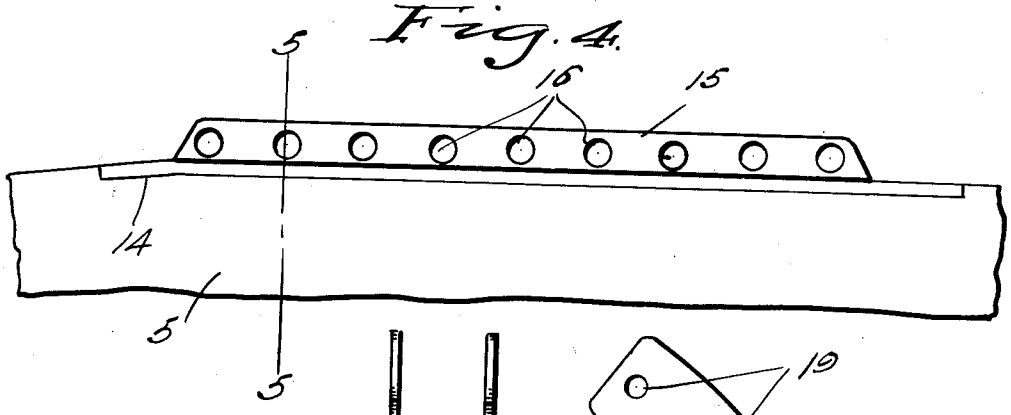


Fig. 8.

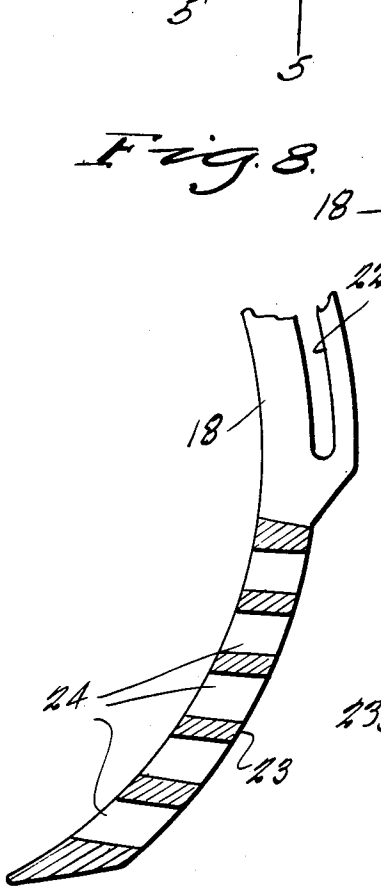


Fig. 7.

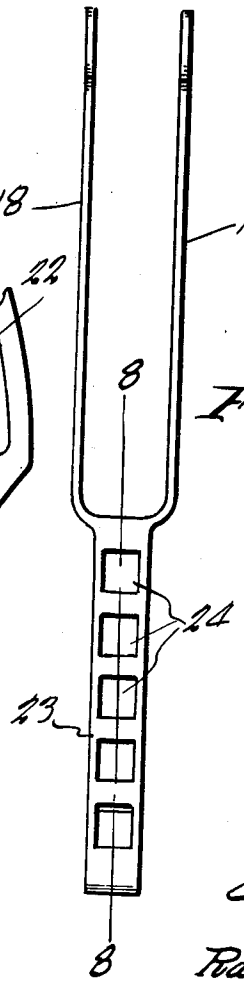
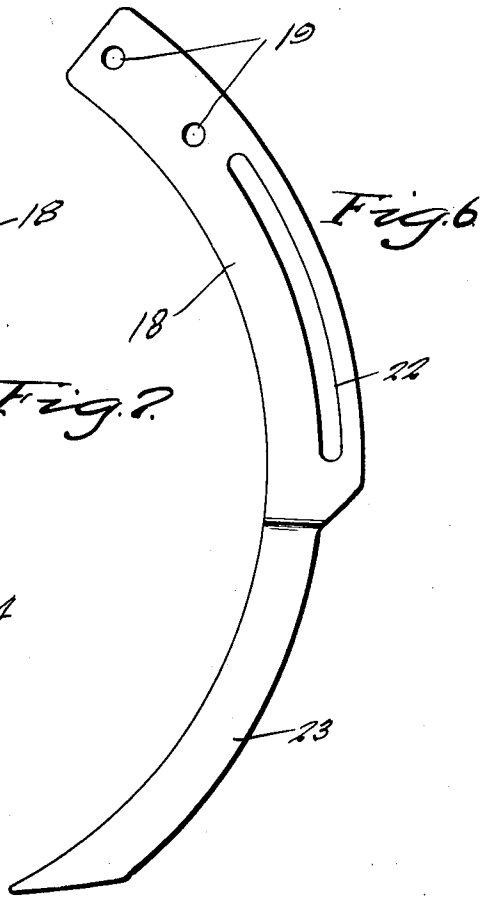


Fig. 6



Inventor

Rainie Bloodworth

By Clarence A. O'Brien

Attorney

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CULTIVATOR STOCK

Rainie Bloodworth, Thomasville, Ga., assignor of one-half to John R. Hall, Jr., Moultrie, Ga.

Application July 10, 1933, Serial No. 679,774

1 Claim. (Cl. 97—198.1)

This invention relates to improvements in cultivators and has as its object to provide a cultivator stock of exceedingly simple, durable and economic construction, and one which will admit of a wide range of adjustment for both the foot and guide handle relative to the beam with which the mentioned parts are associated.

The invention consists in the provision of simple and efficient means for mounting the foot or shank on the plow beam for both angular and longitudinal adjustment of the foot with respect to the beam; together with simple and efficient means for securing the handle at the desired angular adjustment with respect to the beam.

The invention together with its numerous objects and advantages will be best understood from a study of the following description, taken in connection with the accompanying drawings wherein is illustrated a preferred embodiment of the invention.

It is to be understood at the outset that it is in no wise intended to restrict the invention to the precise details of construction, combination and arrangement of elements as specifically herein illustrated and described, other than may be necessary to meet the requirements of the prior art and the scope of the appended claim.

In the drawings:

Figure 1 is a side elevational view of a cultivator stock embodying the features of the present invention.

Figure 2 is a top plan view thereof.

Figure 3 is a side elevational view of one end of the beam and illustrating the application of a rack thereto in accordance with the present invention.

Figure 4 is an enlarged fragmentary side elevational view of the beam showing the application thereto of an apertured bar forming part of the means for pivotally mounting the foot or shank on the beam.

Figure 5 is a sectional view taken substantially on the line 5—5 of Figure 4.

Figure 6 is a side elevational view of the foot or shank.

Figure 7 is a face view of the shank and

Figure 8 is a sectional view through the shank taken substantially on the line 8—8 of Figure 7.

Referring to the drawings by reference numerals it will be seen that 5 indicates generally a plow beam which, as shown, is of an elongated form, and is made of wood. The forward end of the beam is provided with a clevis 6 of any form desirable. The rear end of the beam 5 has a rounded edge (see Figure 3) grooved as at 7 and arcuate rack bar 8 is fitted within the groove 11 and has its ends secured to the beam by any suitable fastening means 9. Adjacent said rear end the beam 5 has pivoted thereto as at 10 the upwardlly extending handles 11. For the most part the handles 11 are of the usual form used on cultivators, and at the pivoted end thereof the handles have secured thereto metallic plates 12 that have parallel end portions disposed at opposite sides of the beam 5 and engaging the pivot bolt 10. The parallel end portions of the plates 12 also support therebetween a keeper bolt or pin or the like 13 that is engageable with the teeth of the rack bar 8 for retaining the handles 11 at the desired inclination.

Inwardly from said rear end the beam 5 has the top edge thereof grooved as at 14 and secured to the beam, and fitting within the groove 14 is a plate 15 that, as shown in Figure 5 is relatively thick in cross section, and is provided with a longitudinal series of relatively spaced transverse openings 16.

Pivotally supported from the plate 15 is an arcuate foot or shank designated generally by the reference numeral 17.

The shank 17 is formed of metal or any other suitable material and is longitudinally curved as shown. The upper portion of the shank or foot 17 is longitudinally split to provide spaced parallel extensions 18 that straddle the beam 5 and the plate 15 as shown in the drawings. At their upper ends the extensions 18 of the foot or shank are provided with spaced openings 19 and an opposed pair of openings 19 are adapted to be alined with a selected one of the openings 16 in the plate 15 for accommodating a pivot bolt 20 for pivotally connecting the shank 17 with the plate 15 at desired points in the respective length of the plate 15 and shank 17.

At a point slightly forwardly of the rear end of the plate 15, the beam 5 adjacent its lower edge has extending transversely therethrough a bolt 21, and the ends of the bolt 21 engage in arcuate slots 22 provided therefor in the shank or foot extensions 18. Said ends of the bolt 21 have nuts screwed thereon to bind against the extension 18 to secure the shank 17 at the desired adjustment. The lower end 23 of the foot or shank 17 is provided with a series of spaced openings 24; and said end 23 is adapted to have secured thereto a plow share or other earth working implement or tool 25 as shown in Figure 1. As is well known said earth working tool is usually provided with bolt and nut means 26, and the latter will be accommodated in a selected one of the openings 24

for securing the earth working implement on the foot or shank 17 at the desired adjustment.

By providing the apertures 19 in the foot extensions 18 to register with a selected one of the openings 16 provision is made for supporting the shank 17 at the desired vertical adjustment as well as for pivotally mounting the foot on the beam 5 at a desired point in the length of the beam.

From the foregoing description it will be seen that I have provided a cultivator stock which will permit of a wide range of adjustment for the foot, the plow share or other earth working tool, and also for the handle. Such a construction and arrangement of parts also reduces to a minimum the number of parts in the organization.

Having thus described my invention, what I claim as new is:—

In a cultivator stock, a plow beam, a plate mounted on the top side of the beam and provided with a longitudinal series of spaced transverse openings, an arcuate standard having at one end spaced parallel extensions straddling said beam, said extensions having openings therein for registry with a selected one of the openings in said plate, bolt and nut means engaging in said openings of said plate and said extensions for pivotally connecting the standard with said plate, said extensions being also provided with arcuate slots, a bolt extending transversely through the beam and having ends engaged in the said slots, a nut on one end of the bolt and cooperable therewith for securing the standard at the desired adjustment, said standard having a lower substantially solid end portion provided with a series of apertures, an earth working implement, and bolt and nut means engaged with the earth working implement and a selected one of said last named apertures for securing the earth working implement to the standard at the desired adjustment.

RAINIE BLOODWORTH.