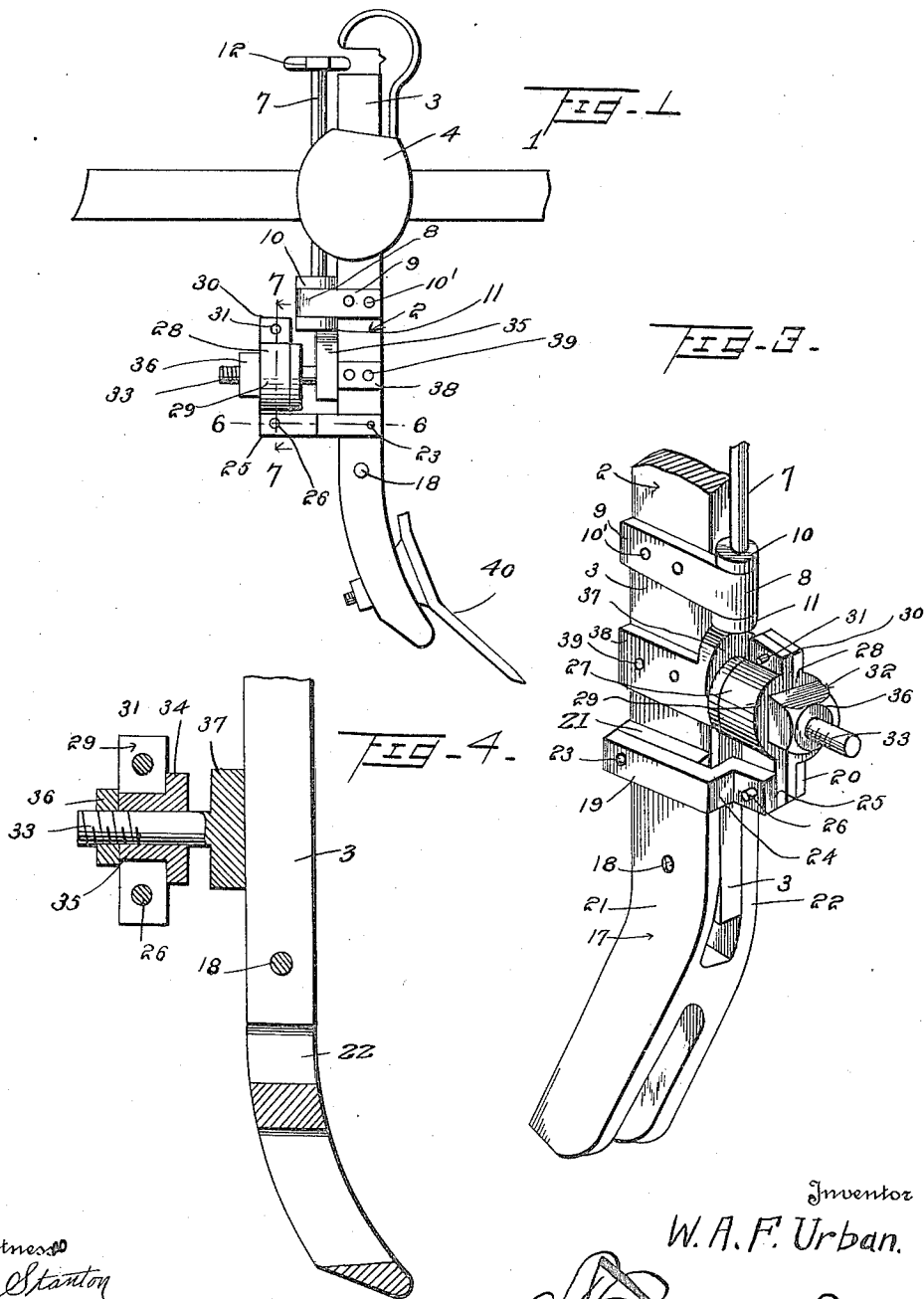


W. A. F. URBAN.
CULTIVATOR STANDARD.
APPLICATION FILED APR. 18, 1916.

1,214,974.

Patented Feb. 6, 1917.

2 SHEETS—SHEET 1.



Witnessed
A. Stanton
R. H. Meyer

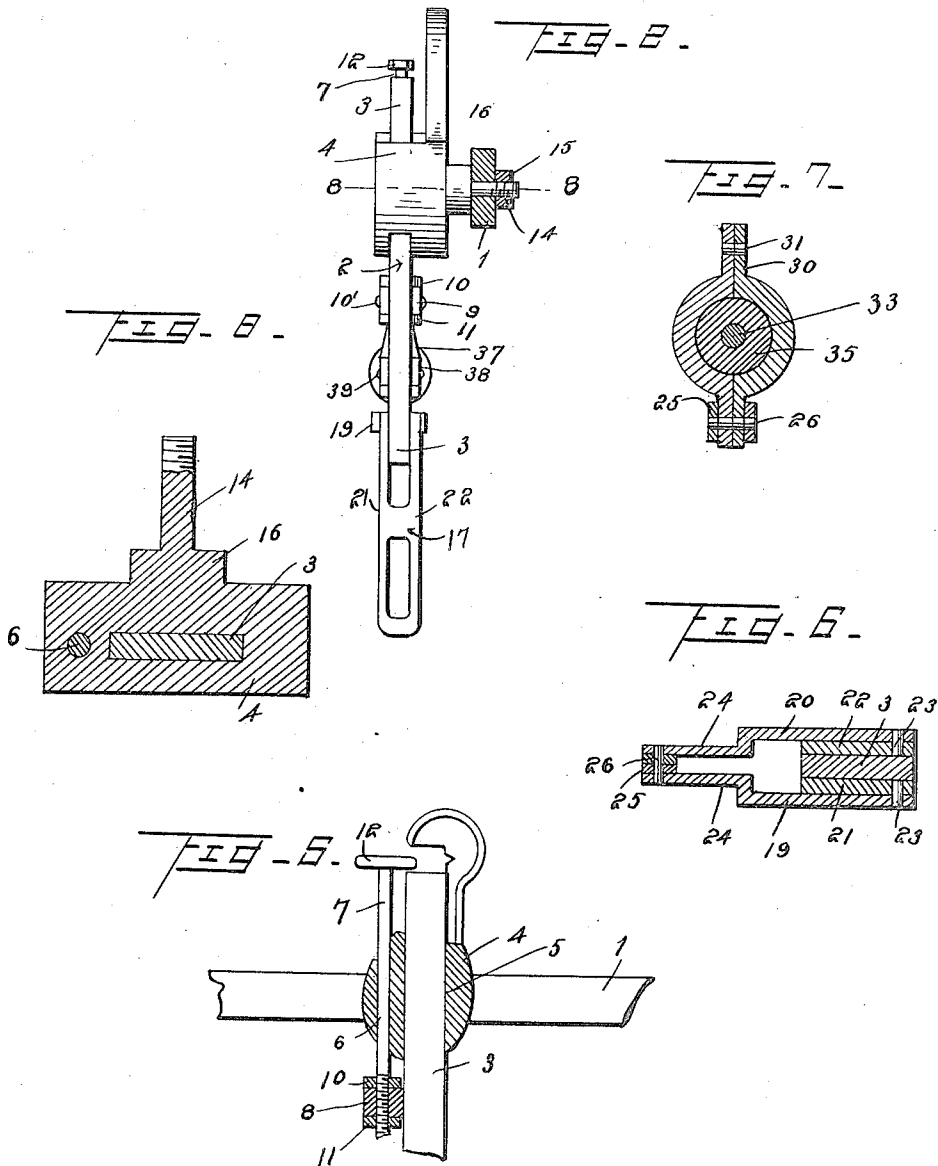
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UNITED STATES PATENT OFFICE.

WILLIAM A. F. URBAN, OF YOAKUM, TEXAS.

CULTIVATOR-STANDARD.

1,214,974.

Specification of Letters Patent.

Patented Feb. 6, 1917.

Application filed April 18, 1916. Serial No. 91,912.

To all whom it may concern:

Be it known that I, WILLIAM A. F. URBAN, a citizen of the United States, residing at Yoakum, in the county of Dewitt and State of Texas, have invented certain new and useful Improvements in Cultivator-Standards; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to cultivator standards and more particularly to a standard which is adaptable for attachment to any suitable type of cultivator rig or beam, which standard is provided with means for adjusting the angle of the cultivating shovel, by adjustment of the lower pivoted end of the standard, and also which standard includes means for adjustably connecting the standards to an ordinary cultivator beam or rig.

Another object of this invention is to provide a cultivator standard as specified, whereby the lower shovel carrying shoe or end of the same is pivotally connected to the main body of the standard, by means of a break pin and to provide means which are carried by the main body of the standard for adjusting the position of the lower pivoted end or shoe of the standard, and holding it in adjusted position for regulating the angle of the cultivating shovel carried thereby.

A further object of this invention is to provide a structure which is carried by the upper portion of the main body of the standard of the cultivator, for attaching the same to the beam or rig of an ordinary cultivator, and which structure is formed so that the position of the standard may be adjusted or regulated with respect to the beam.

In describing the invention in detail reference will be had to the accompanying drawings wherein like characters designate like and corresponding parts throughout the several views, and in which:—

Figure 1 is a side elevation of the improved cultivator standard showing the same applied to a cultivator beam or rig.

Fig. 2 is an edge view of the improved cultivator.

Fig. 3 is a perspective view of the lower end or portion of the cultivator standard.

Fig. 4 is a section through the lower end of the cultivator standard.

Fig. 5 is a section through the upper end of the cultivator standard.

Fig. 6 is a section on the line 6—6 of Fig. 1.

Fig. 7 is a section on the line 7—7 of Fig. 1, and

Fig. 8 is a section on the line 8—8 of Fig. 2.

Referring more particularly to the drawings, 1 designates the beam of an ordinary cultivator structure, and 2 designates the standard structure as an entirety.

The standard structure 2 includes a standard 3, which is rectangular in cross section and has a casting 4 mounted upon its upper end. The casting 4 is provided with a centrally disposed opening 5 through which the standard extends. A second opening 6 is formed in the casting and extends there-through parallel to the opening 5. A rod 7 is rotatably seated in the opening 6 and extends through a lug 8 which has spaced arms 9. The arms 9 are attached to the sides of the standard 3 in any suitable manner as indicated at 10. Nuts 10 and 11 are mounted upon the lower screw threaded end of the rod 7 and the nut 10 is positioned above the top of the lug 8 while the nut 11 is positioned below the lug as clearly shown in Fig. 5 of the drawings. A button or handle 12 is mounted upon the upper end of the rod for facilitating the rotation of the rod. The casting 6 has a shank 14 formed thereon, which shank rotatably extends through the beam 1 of the cultivator structure, and has a nut 15 mounted upon its outer screw threaded end for connecting the standard to the beam of the cultivator. The shank 14 is enlarged as is shown at 16 for forming a spacing collar.

The standard 3 has a foot 17 pivotally connected to its lower end as is shown at 18 by a break pin which may be constructed of easily breakable wood or the like. The shoe 17 has bars 19 and 20 pivotally connected to the upper end of its spaced arms 21 and 22, as is shown at 23. The bars 19 and 20 have angled portions 24, which are connected by means of pins 25 to the tangentially extending flanges 26 that are formed upon the two half or semi-sections 27 and 28 of a collar structure 29.

The collar structure 29 has upwardly ex-

tending flanges formed thereon which are detachably connected by means of a pin 31.

The collar structure 29 is mounted upon a nut structure 32, which nut structure is in 5 turn rotatably and adjustably mounted upon a screw threaded pin 33. The nut structure 32 includes a collar 34, and the reduced shank portion 35 upon which the collar sections 27 and 28 are mounted and 10 also a rectangular shaped head, by means of which the nut is adjusted upon the pin 33. The pin 33 is formed upon a plate 37, which abuts the rear edge of the body 3 and is attached to the body through the medium 15 of arms 38 and bolts, pins or analogous fastening devices 39 which extend through the arm 38.

The adjustment of the nut structure 32 upon the pin 33 will move the foot structure 20 17 pivotally upon the break pin 18, for varying the angle of the foot structure with respect to the main body 3 of the shank, which will regulate the angle of the cultivating shovel indicated at 40, and consequently regulate its depth of insertion into the ground. 25

The rotation of the rod 7 will move the entire shank structure, with the exception of the casting 4 and the parts carried thereby, vertically with respect to the casting 4 30 and the parts carried thereby and the beam or rig 1 of the cultivator.

From the foregoing description taken in connection with the accompanying drawings, the advantages of construction and of 35 the method of operation of the improved cultivator standard will be readily apparent to those skilled in the art to which this invention appertains, and while in the foregoing description, the principle of the operation of this invention has been described 40 together with various features of construction, it is to be understood that certain minor features of construction, combination and arrangement of parts may be altered to suit practical conditions provided such alterations are comprehended within the scope 45 of what is claimed.

What is claimed is:—

1. In a cultivator standard structure, the 50 combination of a standard, a foot structure pivotally connected to the lower end of said

standard by a break pin, a plate attached to said standard, a pin formed upon an extending rearwardly from said plate, a nut 55 adjustably mounted upon said pin, and means connecting said nut to said pivoted foot for pivotally moving the foot upon adjustment of the nut, for regulating the angle of said foot with respect to said standard. 60

2. In a cultivator standard structure, the combination, of a standard, a foot pivotally connected to the lower end of said standard by a break pin, a pair of bars attached to the upper end of said foot, a plate carried 65 by said standard, a pin formed integrally with and extending rearwardly from said plate, a nut adjustably mounted upon said pin, means connecting said nut and said second mentioned bar for pivotally moving 70 said foot upon adjustment of said nut.

3. In a cultivator standard structure, the combination, of a standard, a foot pivotally connected to the lower end of said standard by a break pin, a pair of bars attached to the 75 upper end of said foot, a plate carried by said standard, a pin formed integrally with and extending rearwardly from said plate, a nut adjustably mounted upon said pin, means connecting said nut and said second 80 mentioned bar for pivotally moving said foot upon adjustment of said nut, and means adjustably carried by said standard for pivotally connecting the standard to a cultivator beam. 85

4. In a cultivator standard structure, the combination, of a standard, a casting carried by said standard, and having a shank formed thereon and extending transversely therefrom, said shank adapted for connection with a cultivator beam, said standard 90 extending slidably through said casting, and means carried by said standard for moving the standard vertically with respect to the casting. 95

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

WILLIAM A. F. URBAN.

Witnesses:

EMIL QUAST,
JOE VACKAR.