E. D. YEATTS.

CULTIVATOR STANDARD.

APPLICATION FILED AUG. 1, 1910.

978,348. Patented Dec. 13, 1910.

Fig. 1.

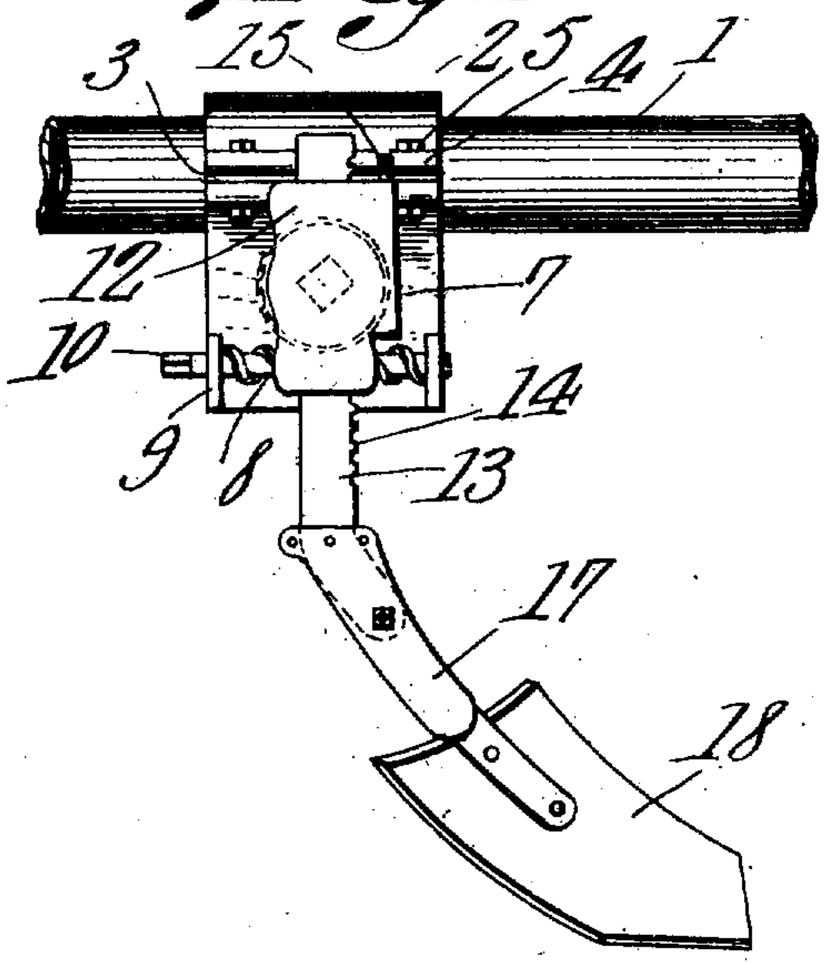
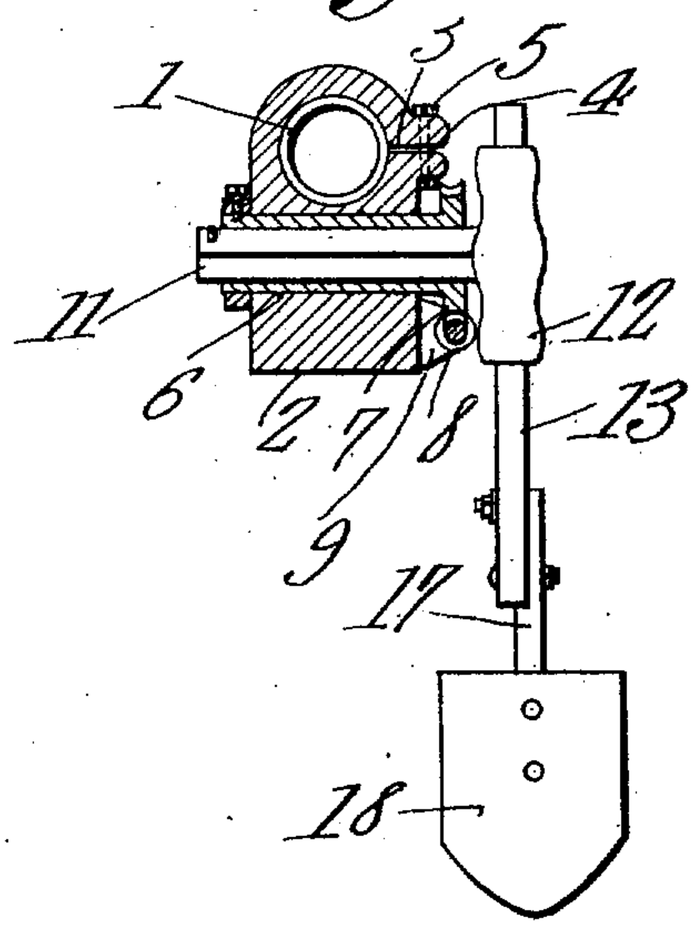


Fig. 2.



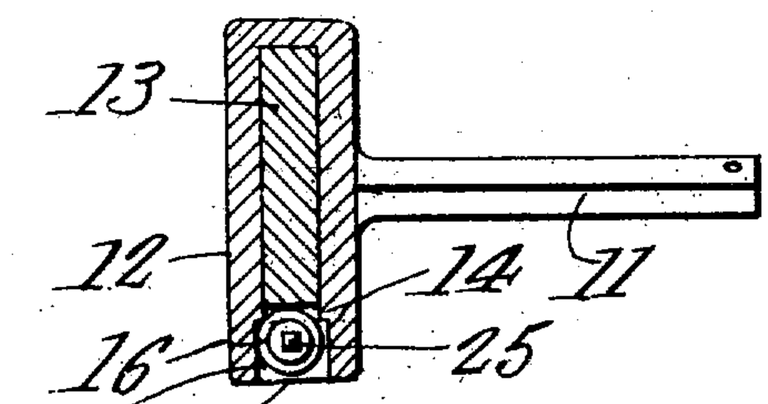


Fig. 4.

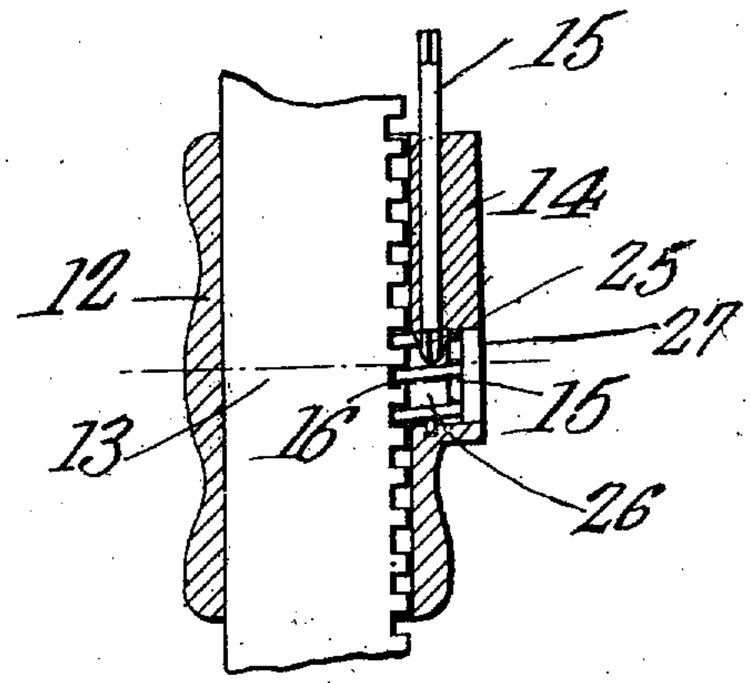


Fig. 3.

Witnesses.
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UNITED STATES PATENT OFFICE.

EDWARD D. YEATTS, OF SANGER, TEXAS.

CULTIVATOR-STANDARD.

978,348. Specification of Letters Patent. **Patented Dec. 13, 1910.**

Application filed August 1, 1910. Serial No. 574,756.

To all whom it may concern:

Be it known that I, EDWARD D. YEATTS, a citizen of the United States, residing at Sanger, in the county of Denton and State of Texas, have invented a new and useful Cultivator-Standard, of which the following is a specification.

This invention relates to a cultivator standard and consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide a standard of simple structure which may be readily adjusted to pitch or position a cultivator shovel at a desired angle to the line of draft and at a desired angle with relation to the surface of the soil.

With the above object in view the structure includes a block adapted to be clamped in position upon a cultivator beam and having a sleeve journaled therein. The sleeve is provided at one end with a worm wheel which engages a worm journaled upon the block. A bolt is detachably inserted in the sleeve but is restrained against independent rotary movement with relation to the sleeve. At its outer end the said bolt carries a collar which adjustably receives the upper end portion of a standard to which a cultivator shovel is pivotally attached at its lower end.

In the accompanying drawing:—Figure 1 is a side elevation of the cultivator standard. Fig. 2 is a transverse sectional view through the supporting block of the standard. Fig. 3 is a sectional view of the collar forming a part of the standard mechanism. Fig. 4 is a horizontal sectional view of the collar.

The standard is adapted to be used in conjunction with a beam indicated at 1 in the drawings and the standard mechanism includes a block 2 having an opening which snugly receives the beam 1 the said block at one side being split as indicated at 3 and having outstanding flanges 4 which are connected together by means of clamp bolts 5. Therefore it will be seen that when the said bolts are tightened and the flanges 4 are drawn together the block 1 will be firmly clamped in an adjusted position upon the beam 1. A sleeve 6 is journaled for rotation in the block 1 and extends transversely with relation to the beam 1. At one end the sleeve 6 is provided with a worm wheel 7 which meshes with a worm 8 journaled between lugs 9 located at one of the sides of the block 1. The shaft of the worm 8 is provided with a projecting non-circular end 10 to which a wrench or crank may be applied for the purpose of turning the said worm. A non-circular bolt 11 is detachably located in the sleeve 6 and is snugly received in the non-circular opening provided in the sleeve and thus the said bolt 11 is restrained in the sleeve against independent rotary movement with relation to the sleeve but may rotate in unison with the same. A collar 12 is carried at one end of the bolt 11 and a standard 13 is slidably mounted in the said collar. The standard 13 is provided at one edge with a set of teeth 14. A worm shaft 25 is journaled for rotation in the collar 12, substantially parallel with the worm shaft 15. The worm shaft 15 has a squared portion 25, adapted to hold a worm wheel 26 against rotation upon the worm shaft 15, the worm wheel 26 being introduced through an opening 27 in the collar 12. This worm wheel 26 meshes into the teeth 14 of the standard 13. It will be seen that by applying a wrench or sheath to the squared upper end of the worm shaft 15, the standard 13 may be raised or lowered, together with the shovel 18, hereinafter described. A foot piece 17 is mounted at the lower end of the standard 13 and carries a cultivator shovel 18 in the usual manner. Thus it will be seen that means are provided for adjusting the cultivator shovel 18 vertically and securing the same in an adjusted position and at the same time by applying a crank or a wrench to the non-circular end 10 of the shaft of the worm 8 and by turning the said worm that the wheel 7 and sleeve 6 will be rotated and the standard 13 may be pitched or positioned at a desired angle with relation to the surface of the soil.

Having described the invention what I claim as new and desire to secure by Letters Patent is:—

1. A standard structure comprising a block adapted to be applied to a beam, a sleeve journaled in the block, a worm wheel carried by the sleeve, a worm journaled upon the block and meshing with the worm wheel, a bolt carried by the sleeve and restrained against independent rotation with relation to the same, a collar carried by the bolt and a standard adjustably mounted in the collar.

2. A standard structure comprising a block adapted to be applied to a beam, a

sleeve journaled in the collar, a worm wheel carried by the sleeve, a worm journaled upon the block and meshing with the worm wheel, a bolt carried by the sleeve and restrained against independent rotary movement with relation to the same, a collar carried by the bolt, a worm mounted for rotation in the collar, and a standard slidably mounted in the collar and having at its edge a series of teeth in mesh with the last named worm.

3. A standard structure comprising a block having an opening adapted to snugly receive a beam, spaced flanges located at the side of the opening, draw bolts drawing the flanges toward each other and clamping the block upon a standard, a sleeve journaled in the block, a worm wheel carried by the sleeve, a worm journaled upon the block and meshing with the worm wheel, and a standard carried by the sleeve.

In testimony that I claim the foregoing as my own, I have hereto affixed by signature in the presence of two witnesses.

EDWARD D. YEATTS.

Witnesses:
S. L. ECHOLS,
H. C. KAY.