

1,028,053.

Fig. 1

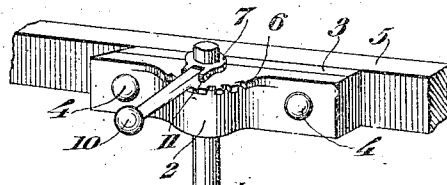


Fig. 2

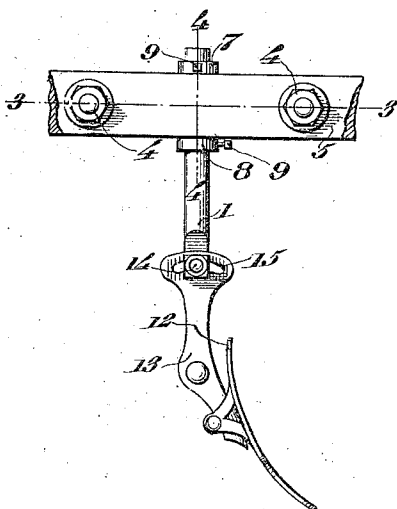


Fig. 3

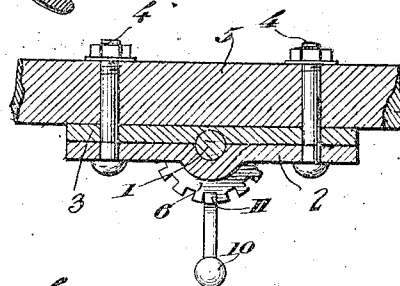
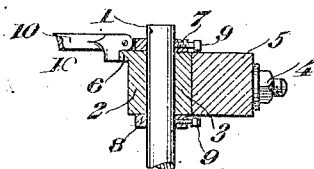


Fig. 4



Wm Bagger

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UNITED STATES PATENT OFFICE.

WILLIAM E. MIKESSELL, OF ALBANY, ILLINOIS.

CULTIVATOR.

1,028,053.

Specification of Letters Patent.

Patented May 28, 1912.

Application filed April 3, 1911. Serial No. 619,745.

To all whom it may concern:

Be it known that I, WILLIAM E. MIKESSELL, a citizen of the United States, residing at Albany, in the county of Whiteside and State of Illinois, have invented new and useful Improvements in Cultivators, of which the following is a specification.

This invention relates to cultivators, and it has particular reference to means for mounting the blade carrying shank upon the cultivator beam.

One object of the invention is to provide simple and improved means for so mounting the shank that it shall be capable of oscillation about its axis, thus enabling the blade to be placed in a straight position and to be adjusted to either side, as may be required.

A further object of the invention is to provide simple and improved means whereby the oscillatory shank may be raised or lowered, as may be required.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claim.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

In the drawings,—Figure 1 is a perspective view showing a portion of the cultivator beam and a blade carrying shank mounted thereon in accordance with the invention. Fig. 2 is a side elevation of the device as seen from the opposite side. Fig. 3 is a sectional view taken upon the line 3—3 in Fig. 2. Fig. 4 is a vertical sectional view taken on the line 4—4 in Fig. 2.

Corresponding parts in the several figures are denoted by like characters of reference.

The cultivator shank 1, which is of cylindrical shape, is supported for rotation in a

box which may be described as being composed of front and rear members 2 and 3 which are connected together by means of bolts 4, said bolts being also extended through the cultivator beam 5 upon which the box is in this manner securely mounted. The front member 2 of the box is provided at its upper edge with a segmental rack flange 6 which is approximately concentric with the axis of the shank 1.

The shank 1 is secured in the boxing by means of collars 7 and 8, disposed adjacent to the upper and lower sides of the boxing, respectively, each of said collars being provided with a set screw 9 whereby it may be secured upon the shank and which may be loosened to permit the shank to be vertically adjusted. Pivotaly associated with the collar 7 is a latch member or lever 10 having a tooth 11 adapted to engage the segment rack 6, thereby holding the shank 1 securely against rotation. The blade 12 has been shown as being mounted upon an arm 13 which is pivotaly connected with the shank 1, said arm being bifurcated to straddle the shank, which latter is equipped with a clamp bolt 14 engaging arcuate slots 15 in the upwardly extending side members of the arm, enabling the latter to be tilted to present the blade at any desired inclination.

As will be readily seen from the foregoing description, taken in connection with the drawings, the shank is capable of being raised or lowered with reference to the beam by simply loosening the set screws 9 to permit the position of the shank to be changed relatively to the collars 7 and 8. By raising the lever or latch member 10 to disengage the tooth 11 from the rack segment 6, the shank may be oscillated about its axis to present the blade to either side of the beam, as may be required. This adjustment may be very quickly and accurately effected, saving much time when the cultivator is to be adjusted for hillside or other special work.

Having thus described the invention, what is claimed as new, is:—

In a device of the character described, a cultivator beam, a box comprising two mem-

bers, means for securing said members together and to the cultivator beam, a segment rack associated with one of the box members, a blade carrying shank supported for oscillation in the box, and collars adjustably engaging the shank member to prevent longitudinal displacement thereof, one of said collars being equipped with a latch

member adapted for engagement with the segment rack. 10

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

WILLIAM E. MIKESELL.

Witnesses:

M. S. ROSENKRANS,
FRANK W. SAGER.