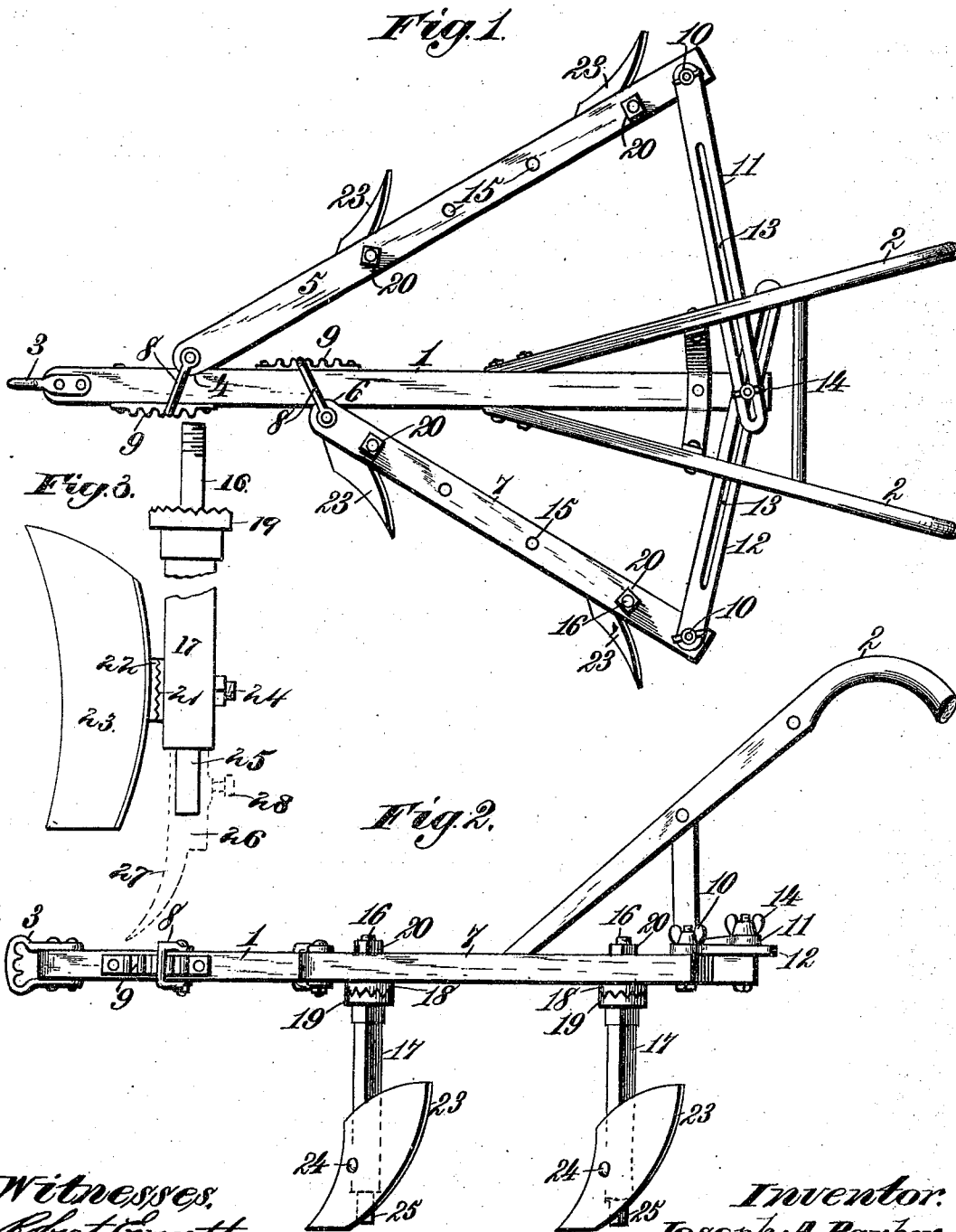


(No Model.)

J. A. PARKER,
CULTIVATOR.

No. 502,135.

Patented July 25, 1893.



Witnesses:
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Atty.

UNITED STATES PATENT OFFICE.

JOSEPH A. PARKER, OF MORRISVILLE, NORTH CAROLINA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 502,135, dated July 25, 1893.

Application filed September 8, 1892. Serial No. 445,348. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. PARKER, a citizen of the United States, residing at Morrisville, in the county of Wake and State of North Carolina, have invented new and useful Improvements in Cultivators, of which the following is a specification.

This invention relates to cultivators and consists in the peculiar features of construction and novel combinations of devices as hereinafter described and claimed.

In the annexed drawings illustrating the invention—Figure 1 is a plan of a cultivator embodying my improvements. Fig. 2 is a side elevation of the same. Fig. 3 is a view of one of the cultivator standards detached, showing the manner of imparting an axial adjustment to a standard and detachably securing a cultivator blade, shovel, plow, sweep, point or tooth thereto.

Referring to the drawings, the numeral 1 designates the cultivator beam provided with handles 2 and a draft clevis 3, as usual. In one side of the beam near its forward end is formed a notch or curved recess 4 which receives the forward end of an adjustable inclined wing 5 that is pivotally or adjustably connected to the beam in any suitable manner. In the opposite side of the beam 1, at a point in rear of the notch or recess 4 is formed a notch or curved recess 6 to receive the forward end of a shorter inclined wing 7 that is also pivotally or adjustably connected to the beam by any convenient or appropriate means.

For the purpose of adjustably connecting the forward ends of the wings 5 and 7 to the beam I may employ the loops 8 each of which has one end passed through a vertical perforation in the forward end of one of said wings and its other end adjustably engaged in a rack 9 secured to the opposite side of the beam. It will thus be seen that the forward end of the longer wing 5 is adjustably connected to the beam at a point in advance of the adjustable connection of the forward end of the shorter wing.

To the rear end of each adjustable wing 5 and 7 is pivotally attached, by means of a thumb screw 10, one end of a bar 11 or 12 each of which is provided in its other end with a long slot 13 for engagement with a thumb-screw 14 by which said pivotally attached and

slotted bars are adjustably connected to the rear portion of the cultivator beam. By loosening the thumb-screw 14 the angle of inclination of the adjustable wings 5 and 7, either or both, with relation to the beam 1 can be readily varied to spread said wings apart or adjust either or both more closely to or farther from the beam and thus vary the position of the cultivators carried by said wings according to the character of the work to be done.

Each adjustable wing 5 and 7 is provided with a series of perforations 15 to receive screw threaded shanks 16 on the upper ends of the axially adjustable cultivator standards 17. To the under side of the wing, at each perforation 15, is secured a centrally perforated disk 18 having its under side provided with radial corrugations corresponding with similar radial corrugations on the upper side of a disk 19 that is secured to the base of the shank 16 on each standard. By this construction an axial adjustment can be readily and quickly given to each standard according to the direction or angle in which the cultivating devices are to be operated. When each standard 17 is adjusted in the desired position and secured by means of a nut 20 placed on the threaded shank 16 and turned down against the upper side of the wing the engagement of the corrugated faces of the disks 18 and 19 will hold the standard firmly and prevent it from turning on its vertical axis. By means of a similar arrangement of radially corrugated disks 21 and 22, Fig. 3, secured respectively to a vertical face of each standard 17, near its lower end, and to the rear side of a cultivator blade, shovel, plow or sweep 23 said cultivating device can be readily adjusted to any position prior to securing it to the standard by the usual bolt and nut 24, as shown.

It is obvious that the cultivator blades, plows, shovels, sweeps or other cultivating devices thus adjustably secured to the standards 17 may be of any appropriate form and size according to the character of the work to be performed. The lower end of each standard 17, may be provided with a shank or stud 25 to enter the socket portion 26 of a cultivator point or tooth 27 that can be attached to any one or all of the standards, as desired. The points or teeth 27 can be employed either alone or in conjunction with any desired form

of cultivator blade or sweep located above the tooth, as shown. The socket 26 of each point or tooth 27 is secured to the shank or stud 25 by means of a set screw 28 whereby each point
5 or tooth can be adjusted independently to correspond to any axial adjustment that may have been given to the standard 17 for the purpose of varying the position of the blade, plow or sweep 23 attached to said standard.
10 The adjustments thus provided for the wings 5 and 7, the standards 17 attached to said wings and the cultivating devices carried by said standards adapt the machine to a great variety of work.
15 The machine is of light draft and is well adapted to the removal of weeds and the cultivation of plants in hills or rows. If desired either inclined wing 5 or 7 can be detached and the other, with its adjustable cultivator
20 standards, may be employed alone.
What I claim as my invention is—

In a cultivator, the combination of the draft beam having racks 9 secured to the opposite sides of its forward end, the inclined wings 5 and 7 having their forward ends provided
25 with pivoted loops 8 adapted to surround the draft beam and be adjustably engaged with one of said racks, slotted bars for adjustably connecting the rear ends of said wings to the rear portion of the beam, and standards ad-
30 justably connected to the wings and each adapted to carry an adjustable point or tooth at its end and an adjustable blade on its vertical face, substantially as described.

In testimony whereof I have hereunto set
35 my hand and affixed my seal in presence of two subscribing witnesses.

JOSEPH A. PARKER. [L. s.]

Witnesses:

HARRY G. UTLEY,
J. C. BURNS.