

No. 689,623.

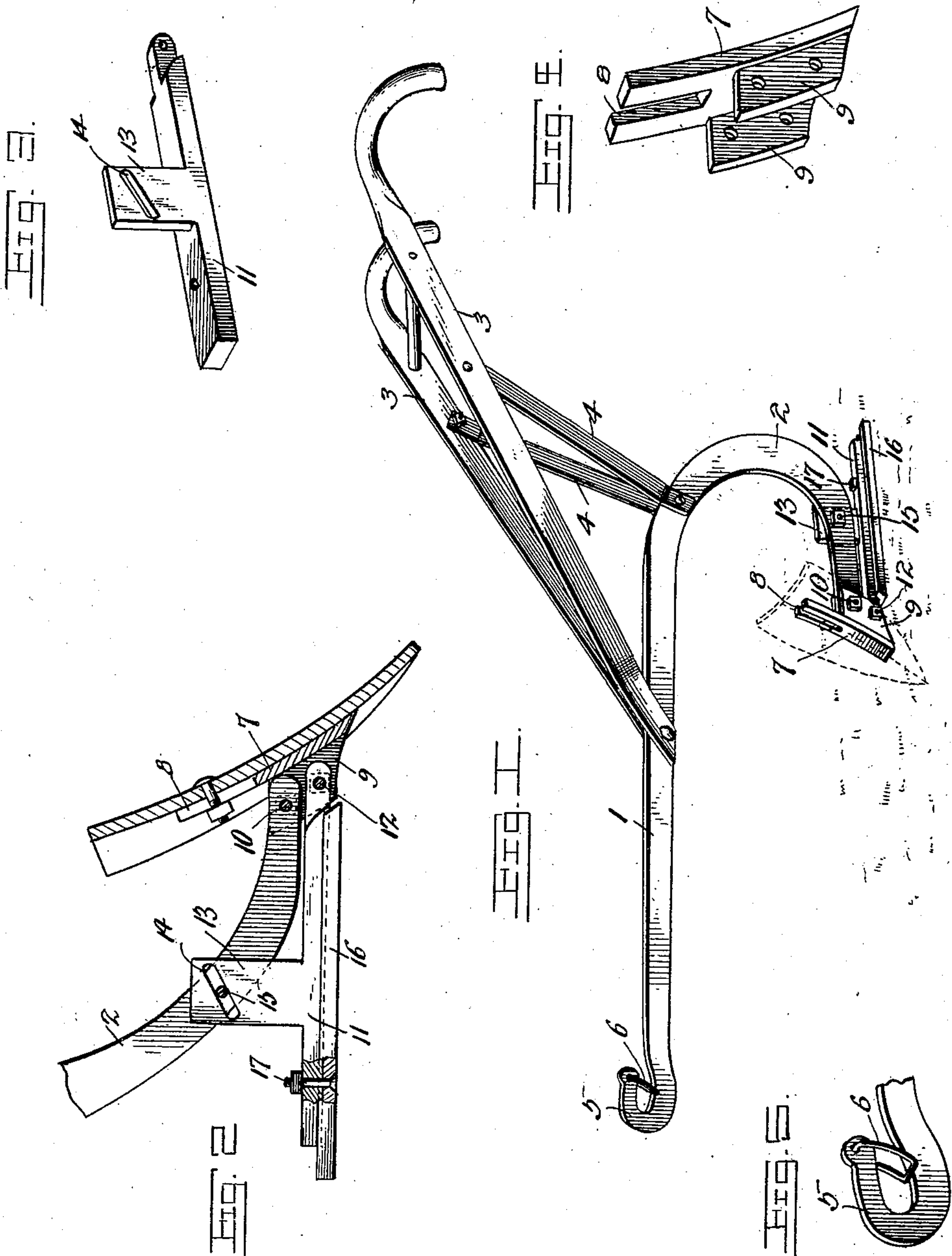
Patented Dec. 24, 1901.

M. McK. RITCH.

CULTIVATOR PLOW.

(Application filed July 23, 1901.)

(No Model.)



Witnesses
J. E. Allen
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UNITED STATES PATENT OFFICE.

MILTON MCKEE RITCH, OF LAURINBURG, NORTH CAROLINA, ASSIGNOR OF
ONE-HALF TO MARK MORGAN, OF LAURELHILL, NORTH CAROLINA.

CULTIVATOR-PLOW.

SPECIFICATION forming part of Letters Patent No. 689,623, dated December 24, 1901.

Application filed July 23, 1901. Serial No. 69,428. (No model.)

To all whom it may concern:

Be it known that I, MILTON MCKEE RITCH, a citizen of the United States, residing at Laurinburg, in the county of Richmond and State of North Carolina, have invented a new and useful Cultivator-Plow, of which the following is a specification.

My invention is an improved cultivator-plow; and it consists in the peculiar construction and combination of devices hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a cultivator-plow constructed in accordance with my invention. Fig. 2 is a detail elevation of the same, partly in section. Fig. 3 is a detail perspective view of the adjusting-bar. Fig. 4 is a similar view of the shoe. Fig. 5 is a similar view of the hooked end of the beam.

The beam 1, which is preferably made of iron or steel, has its rear end bent to form a standard 2, which is curved, as here shown, and is substantially semicircular in form. The usual handles 3 are attached to the beam and braced by the bars 4. At the front end of the beam is formed a draft-hook 5 for the attachment thereto of a singletree by a link of the usual form, and the said draft-hook is provided with a retaining-link 6, which is pivoted at its upper end, as shown, and which serves to keep the singletree from becoming disconnected from the hook when the plow is in use.

To the lower front end of the standard 2 is pivoted a shoe 7, which is preferably of the form shown and has an open vertical slot 8 in its upper end for the reception of the usual bolt to secure the shovel or scraper-blade on the face of the shoe. The latter is provided on its rear side with rearwardly-extending flanges 9, which are vertically disposed, and between which, at the upper ends thereof, the front end of the standard 2 is disposed, said standard and the said flanges 9 having aligned openings, in which is placed a bolt 10, which pivots the shoe to the standard. An adjusting-bar 11, which is preferably of the form here shown, has its front end disposed between the flanges 9 of the shoe, at the lower ends thereof, and pivotally connected thereto by a bolt 12. The

said adjusting-bar has a vertical lug 13 on its upper side, which lug bears against one side of the standard 2 and is provided with an inclined slot 14. A bolt 15 operates in the said slot and serves to secure the adjusting-bar to the standard 2, while admitting of the adjustment of the adjusting-bar in a longitudinal direction, as will be understood, hence enabling the shoe 7, and consequently the shovel or scraper thereon, to be set at any desired angle.

On the under side of the adjusting-bar is a sole-plate 16, which is detachably secured thereto, as by a bolt 17. As here shown, the sole-plate has a groove 18 on its upper side, in which the adjusting-bar is seated. The sole-plate relieves the adjusting-bar of wear by frictional contact with the bottom of the furrow and may be renewed when worn.

Having thus described my invention, I claim—

1. In a cultivator-plow, the combination of a standard, a longitudinally-adjustable bar connected thereto and a shoe pivotally connected to said standard, and said adjustable bar, whereby said shoe may be disposed at any desired angle, substantially as described.

2. A cultivator-plow having a curved standard with a forwardly-extending arm at its lower end, in combination with a shoe attached to the front end of said arm of said standard, and a horizontally-disposed adjustable bar under said arm of said standard, substantially as described.

3. In a cultivator-plow, the combination of a standard, a shoe pivotally connected thereto, an adjustable bar pivotally connected to said shoe, disposed under said standard, and having a lug bearing against and secured to said standard, substantially as described.

4. In a cultivator-plow, the combination of a standard having a forwardly-extending arm, a shoe pivotally connected to the front end of said arm, an adjustable bar disposed under said arm, attached thereto and connected to said shoe, whereby the latter may be adjusted, substantially as described.

5. In a cultivator-plow, the combination of a standard having a forwardly-extending arm, a shoe pivotally connected to the front

end of said arm, an adjustable bar disposed
undersaid arm, attached thereto and connect-
ed to said shoe, whereby the latter may be
adjusted, and a sole-plate detachably secured
5 to said adjustable bar, substantially as de-
scribed.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in
the presence of two witnesses.

MILTON McKEE RITCH.

Witnesses:

WALTER H. NEAL,

W. H. NEAL, Jr.