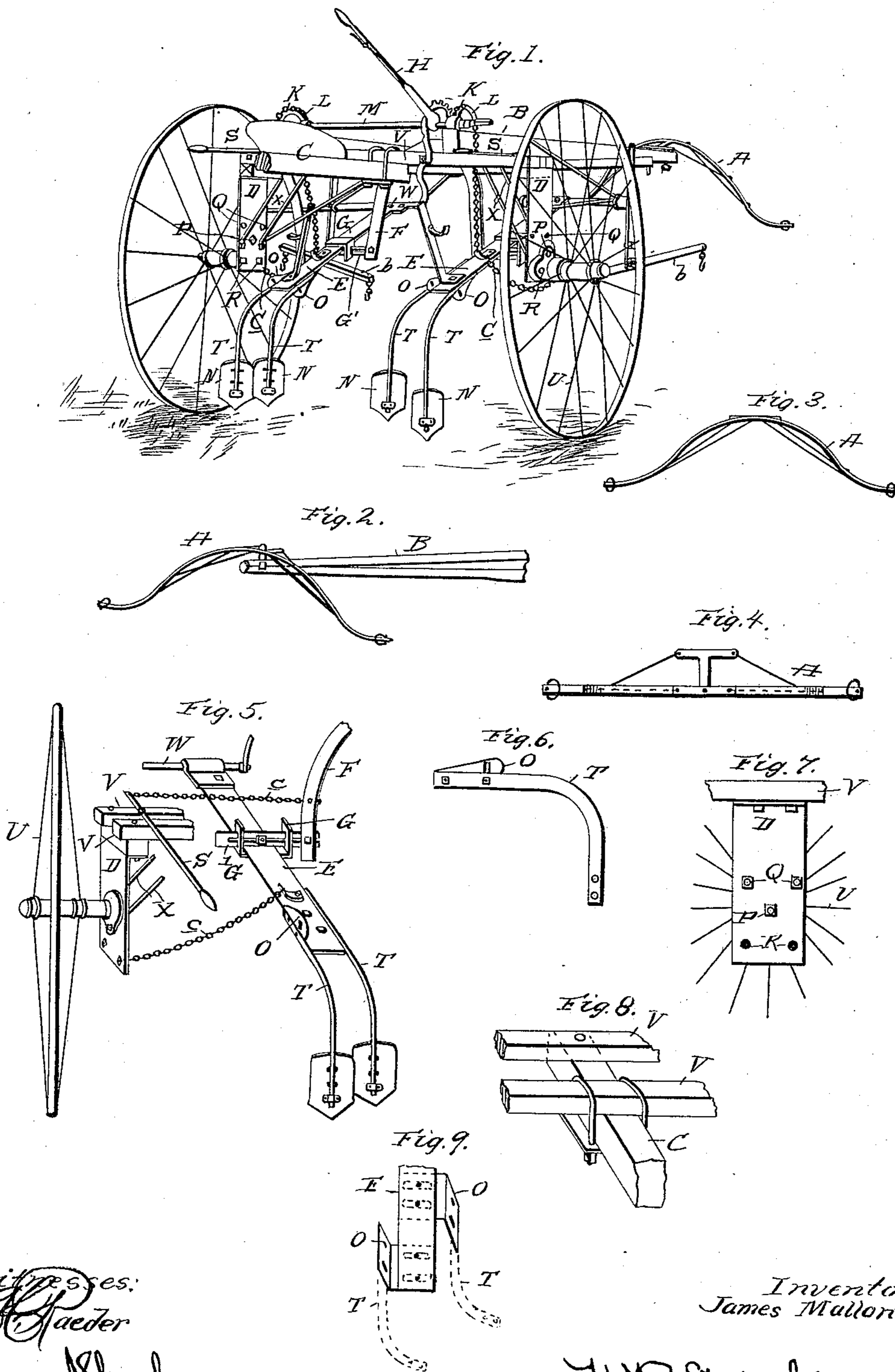


(No Model.)

J. MALLON.
CULTIVATOR.

No. 441,500.

Patented Nov. 25, 1890.



Witnesses:
 E. Gaeder
 James Sheehy

Inventor
James Mallon

W.R. Stringfellow.
By his Attorney

UNITED STATES PATENT OFFICE.

JAMES MALLON, OF NEW ORLEANS, LOUISIANA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 441,500, dated November 25, 1890.

Application filed July 10, 1890. Serial No. 358,356. (No model.)

To all whom it may concern:

Be it known that I, JAMES MALLON, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Cultivators; and I do 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.

My invention relates to an improvement in a cultivator, and the novelty will be fully understood when taken in connection with the following description and annexed drawings; and the objects of my invention are to enable the plows attached to same to be raised or lowered or shifted apart in a summary manner, thereby enabling land to be cultivated at any stage of the crop. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective rear view. Fig. 2 is a perspective front view of neck-yoke. Fig. 3 is a side view of neck-yoke. Fig. 4 is top view of neck-yoke. Fig. 5 is a perspective sectional rear view of cultivator. Fig. 6 is a side view of slotted arm or plate for raising plow. Fig. 7 is an inside view of plate for raising or lowering axle. Fig. 8 is a sectional top view of frame and seat-stick. Fig. 9 is a perspective sectional top view of beam, showing shovel or plow shanks and plates to which same are adjusted.

Similar letters referring to similar parts throughout the several views—

In the drawings, A refers to a neck-yoke, which is made of steel and with sufficient tension to yield readily when pole B is raised or lowered when the team is attached.

C is a seat for driver, which may be raised or lowered by means of metal plates D, which are so constructed that the axle adjusted to same can also be raised or lowered by shifting bolts from openings R to openings Q, P being a bolt which is kept in a stationary position.

E are beams, which are held in position by means of arch F and shaft W, and which is adjusted within plate G and holds the beam

at any desired distance, G' being a slotted arm for adjusting G to same, which enables beams E to be worked back and forth by means of shifting-levers S.

H, as shown in Fig. 1, is a lever for raising or lowering plows N when working uneven soil or crossing drains or ditches and operates in conjunction with chains K, swivels L, shaft M, and slotted arm or plate O, in which there is a slot which permits arm T of shovel or plow shank to be raised or lowered, as may be desired.

U indicates spokes of wheel, as seen in Fig. 7. V are cross frame-pieces; W, a metal arm. X are braces; c, stay-chains; b, whiffletrees.

The mode of operation of my cultivator varies from those now in use as follows: By means of my neck-yoke the pole may be raised or lowered without injury to team, and by means of lever H, chain, and connections the plows can be raised or lowered, or shifted apart by lever S, and by use of the plates D the axles can be raised or lowered, which will also elevate or lower the seat of driver, which is very essential in cultivating a crop—such as sugar-cane or corn—when laying by.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the seat and axles of the perforated plates D, the plates R, also having perforations, bolts to enter perforations, the chains C, plates E, slotted plates G, arms F, levers S, and bars l, substantially as specified.

2. In a cultivator such as described, the beams E, with means for adjusting plow-shanks for raising or lowering same, and the plate G, for inserting a slotted arm, in combination with shifting-levers for giving a side action to beams and lifting-lever H, for raising and lowering beams E and plows when working, as set forth.

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

JAMES MALLON.

Witnesses:

PERCY D. PARKS,
J. B. ROSSER, Jr.