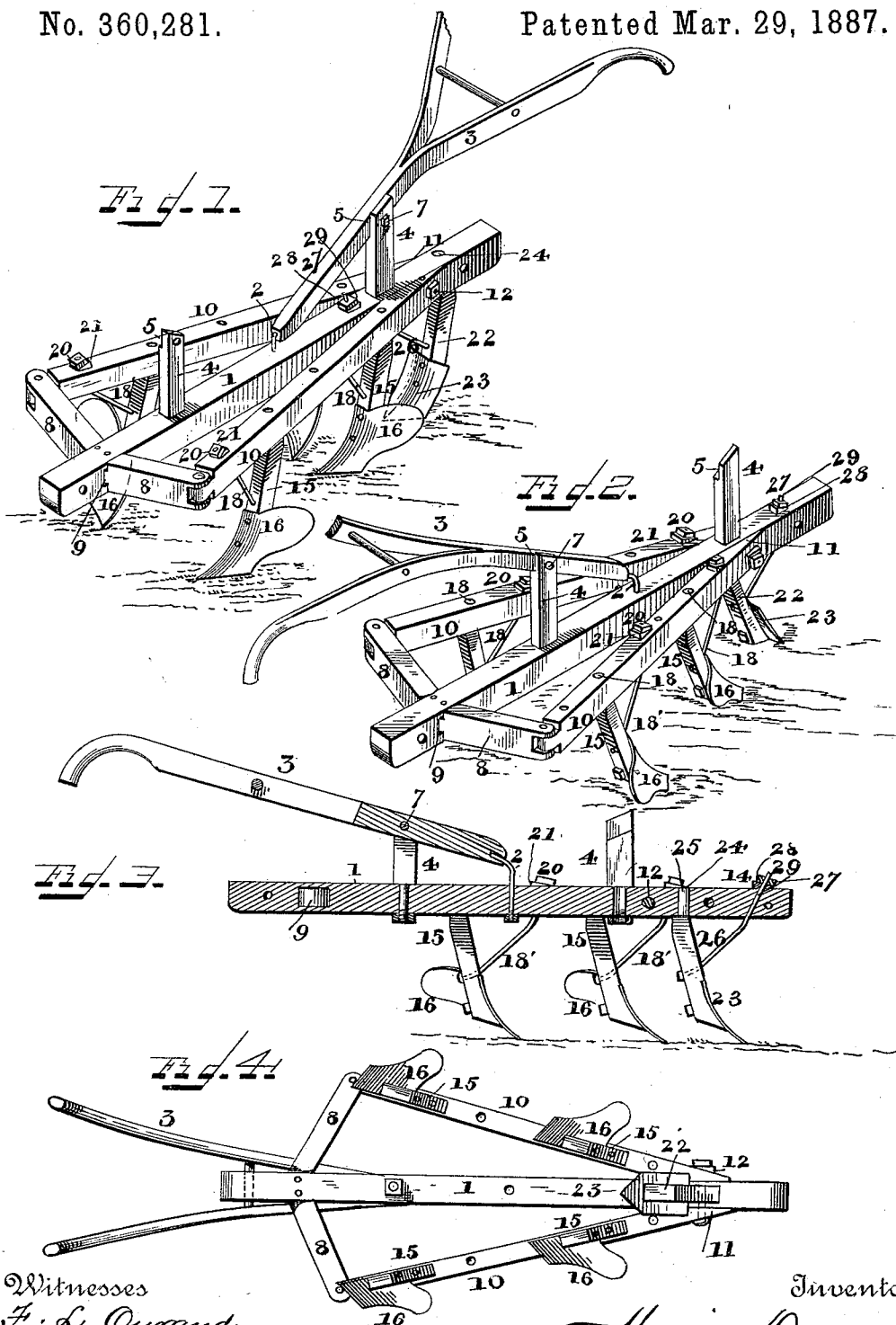


(No Model.)

M. DANOS.
CULTIVATOR.

No. 360,281.

Patented Mar. 29, 1887.



Witnesses
H. L. Ourand
Benj. H. Cowf.

Inventor
Marie Danos,
By her Attorneys
Louis Dagher & Co.

UNITED STATES PATENT OFFICE.

MARIE DANOS, OF NEW IBERIA, LOUISIANA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 360,281, dated March 29, 1887.

Application filed January 24, 1887. Serial No. 225,294. (No model.)

To all whom it may concern:

Be it known that I, MARIE DANOS, a citizen of the United States, and a resident of New Iberia, in the parish of Iberia and State of Louisiana, have invented certain new and useful Improvements in Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved plow or cultivator. Fig. 2 is a similar view showing it inverted. Fig. 3 is a longitudinal vertical sectional view of the cultivator, and Fig. 4 is a bottom view of the same.

Similar numerals of reference indicate corresponding parts in all the figures.

My invention has relation to that class of cultivators or plows in which the draft may be applied to either end of the frame, and in which the plows may be turned to point in either direction, and the handles be turned in either direction, placing the plows either in converging rows or diverging rows; and it consists in the improved construction and combination of parts of such a cultivator, as herein-
after more fully described and claimed.

In the accompanying drawings, the numeral 1 indicates the main beam, which is formed with a suitable perforation, 2, for the attachment of a clevis, and which has the converging ends of the handles 3 pivoted to swing upon its middle, and two uprights, 4, at equal distances from the pivotal point of the handles, the said uprights having reduced or shouldered upper portions, forming steps 5, upon which the connected ends of the handles may rest, and be held by means of a bolt, 7, passing through perforations in the reduced ends of the uprights and in the united ends of the handles.

Two arms, 8, are pivoted with their reduced inner ends in a slot or recess, 9, in one end of the beam, and the ends of two side beams, 10, are pivoted to the ends of these arms, while the other ends of the said beams are cut off obliquely, as shown at 11, and secured to the main beam by means of a bolt, 12, passing through

perforations 13 in the ends of the beam, and through one of a series of perforations, 14, in the main beam.

Standards 15 have suitable shovels or plow-blades, 16, secured to their lower ends, and have their upper reduced ends, 17, inserted through vertical perforations 18 in the beams, turning in the said perforations with the reduced ends, the said reduced ends being placed at such angles to the lower portions of the standards that the reduced ends may turn in the vertical perforations, and the remaining portions of the standards remain at the same angles to the beams when turned to either side. Inclined braces 18 pass through the standards and up through inclined perforations 19 in the beams, having nuts 20 upon their upper screw-threaded ends, and the beams are formed with two perforations for the braces for each perforation for the standards, as the standards may be turned so as to have their lower ends and their blades pointing in either direction, and the braces will at all times point in the direction of the points of the blades.

Wedge-shaped washers 21 are preferably placed under the nuts of the braces, so that the upper sides of the washers may present a face parallel to the faces of the nuts.

A standard, 22, having a pointed shovel-blade, 23, is secured with its reduced upper end, 24, in a perforation, 25, in the end of the main beam, having the united ends of the side beams secured to it, and this standard is provided with a brace, 26, having a washer, 27, and nut 28, and passing through perforations 29 in the main beam in the same manner as the braces of the other standards.

It will now be seen that when it is desired to have the plows placed in rows converging toward the rear the standards are adjusted so as to bring the points of the blades to project in the direction of the diverging ends of the side beams to swing the handles so as to bring their free ends to project in the direction of the converging ends of the side beams, and the draft is attached to the end of the beam having the arms pivoted to it, and when it is desired to have the plows in rows diverging toward their rear ends the standards are turned, the handles shifted to the other end, and the draft at-

tached to the other end, when the cultivator may be drawn in the opposite direction.

The converging ends of the side beams may be adjusted by their bolt in the perforations in the main beam, placing the side beams farther forward or rearward, as desired.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

- o In a cultivator, the combination of a main beam having perforations for the attachment of a clevis at both ends, and having a series of perforations in one end and a slot in the other end, and formed with uprights having stepped upper ends and projecting at equal distances

from the middle, handles having their united ends pivoted to swing at the middle of the beam, and having a bolt passing through the said handles and fitting in a perforation in the reduced ends of the posts upon the main beam, side beams secured to said main beam, and suitable blades secured thereto.

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

MARIE DANOS.

Witnesses:

LAURENT BERNADAC,
WM. R. BURKE.