(No Model.)

# J. J. & E. R. PIATT.

## PLOW.

No. 286,730. Patented Oct. 16, 1883.

*Fig. 1.*

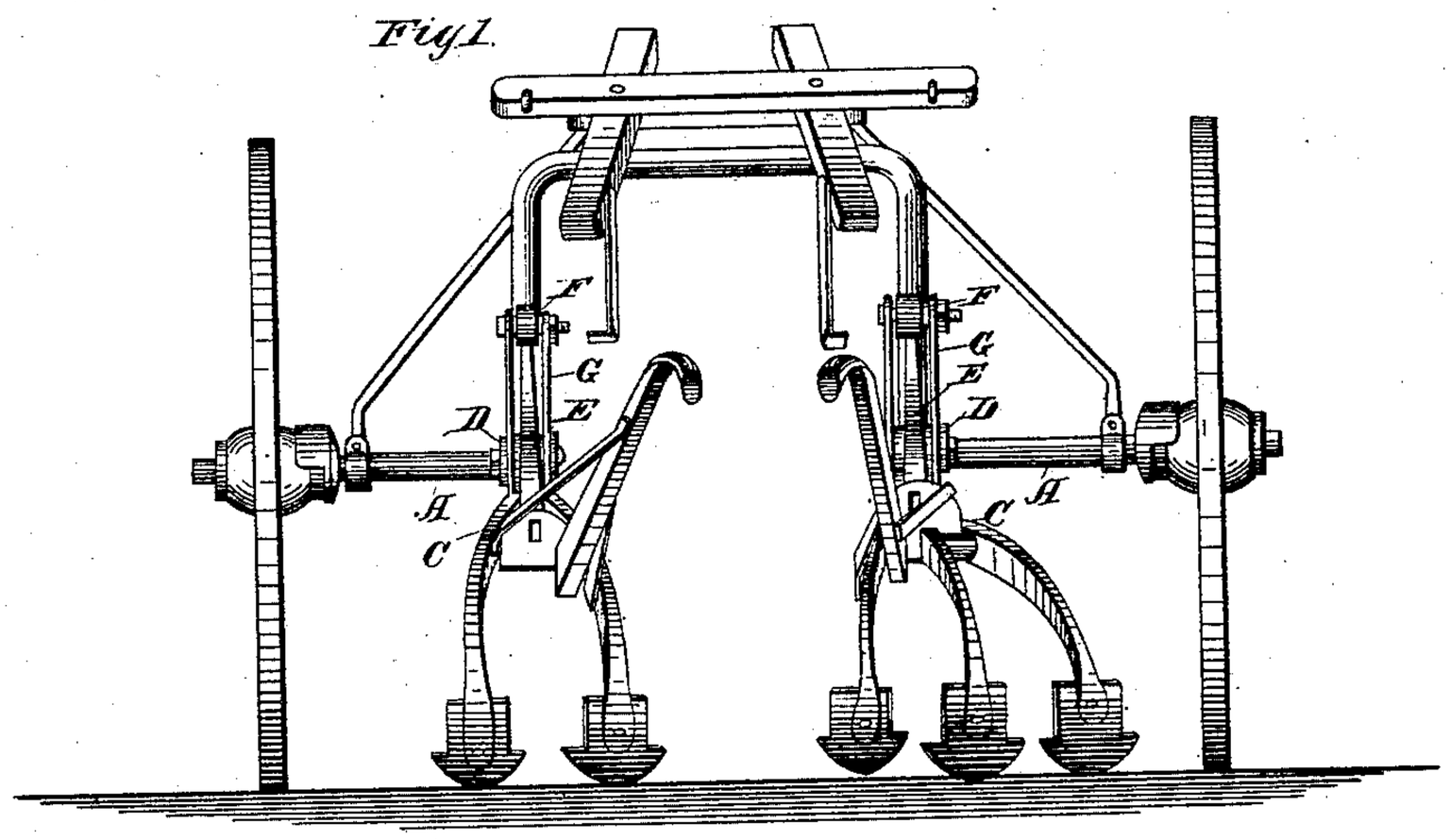



*Fig. 2.*

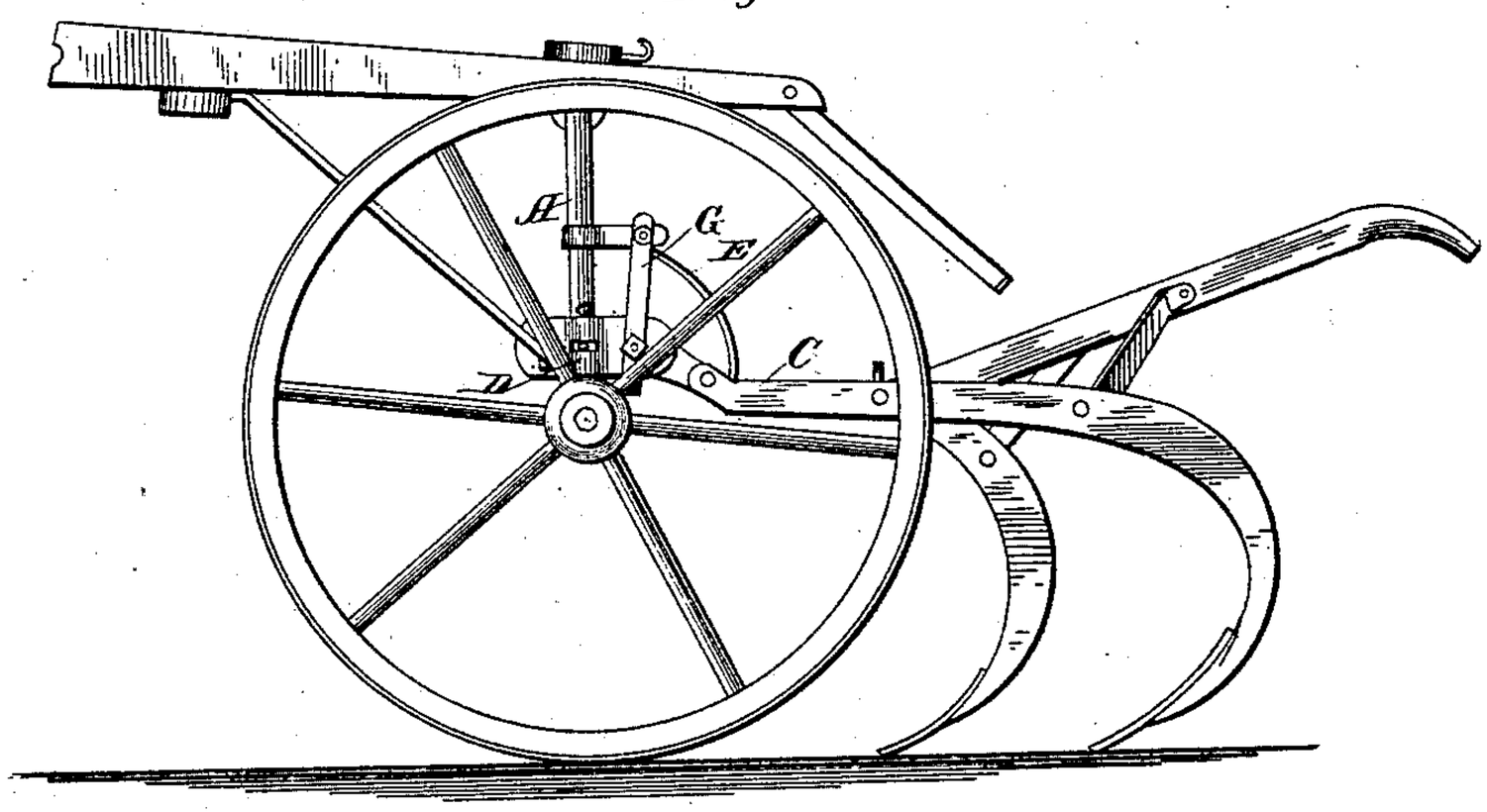
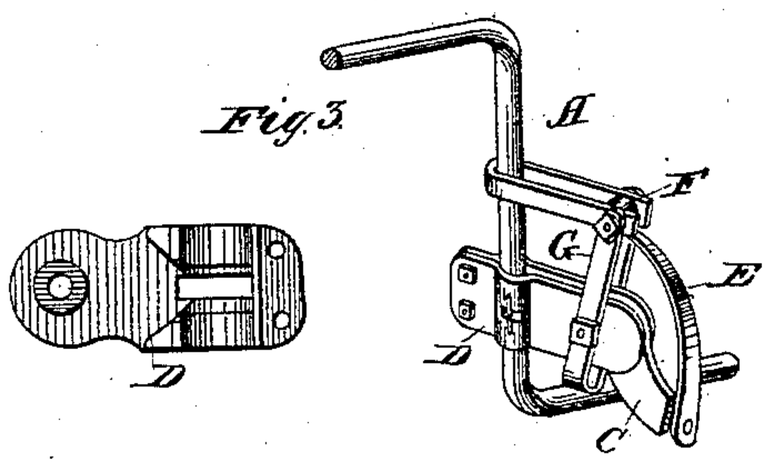



*Fig. 3.*




Witnesses:

Wm. E. Higgins
F. P. Haso

Inventors:

Josiah J. Piatt
Edward R. Piatt

# UNITED STATES PATENT OFFICE.

JOSIAH J. PIATT AND EDWARD R. PIATT, OF LA PORTE, INDIANA.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 286,730, dated October 16, 1883.

Application filed July 28, 1881. (No model.)

*To all whom it may concern:*

Be it known that we, JOSIAH J. PIATT and EDWARD R. PIATT, of the city of La Porte, and the county of La Porte and State of Indiana, have invented a new and valuable Improvement in Corn-Plows; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed and accompanying drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a rear view. Fig. 2 of the drawings is a side view. Fig. 3 of the drawings is a view of the axle and attachments.

Our invention consists of an improvement on that class known as the "straddle-row corn-plows," which are so well known as not to need a full description, and alludes more particularly to what is known as the "bow-axle" plows.

A is the axle, to which the pole B is attached, and to which the beams C are attached.

Most beams or plows are attached to the horizontal part of the axle; but we attach them to the vertical part of the axle, as the plows can be more readily raised or lowered to give the shovels the proper slant by attaching to the upright part of the axle, and having the upright part thereof pierced with holes, through which to fasten the front end of the plow-beams; or the same end may be accomplished by a set-screw and other means. This also gives more open space between the bends in the axle for the top of tall corn.

The boxes D are an important part of this invention, and are used for fastening the front end of the plow-beams to the upright part of the axles, as shown in Fig. 3. The boxes are made of two pieces, each of which has a half-circle or concave to fit around the axle, with a slot or piercing through the half-circle for the bolt or set-screw which fastens it to the axle; also a wing extending out on the back side, with a hub or projection in the center on the inside of the wing, and through which is a hole for a bolt which passes into a hole made through the front end of the plow-beam. The two pieces forming the box are then bolted together, so as to hold the beam firmly to its place and to the axle, allowing it to play freely up and down, but not allowing much, if any, side motion in the box. The box being free to turn on the axle gives all the side motion that may ever be necessary.

We also have made a provision to attach a third or middle beam, C, between each of the usual pair of beams, for the purpose of forming a six-shovel plow, when desired, for small corn. The middle beam and the other beams are so constructed as to allow the middle beam to be easily removed or changed, if desired, and the plow be arranged with four (4) shovels only for hilling the corn.

We also attach a spring, E, to the front end of the beam, extending upward and passing under a roller, F, which is attached to the bars G, extending from the box D, with a supporting-bar extending horizontally from the upright part of the axle, and in such form as that the roller turns to keep line with the beams and prevent all side strain on the springs.

What we claim as new and our invention, and what we desire to protect by Letters Patent, is as follows:

1. The combination, with the plow-beams and the vertical portion of the arched axle, perforated as shown, of the boxes D, composed of two plates or half-boxes, each having limiting-slots *d* and bolt-holes *d'*, with bosses or hubs to protect the coupling-bolt, substantially as shown and described.

2. The combination, with the axle and plow-beams, of the box D, the vertical bars G, the swiveling yoke or bars G', the spring E, and roller or fulcrum F, all arranged to swing laterally together, substantially as shown and described.

In testimony whereof we have hereunto set our hands and affixed our seals, in the presence of two witnesses, at La Porte, Indiana, this 18th day of June, A. D. 1881.

JOSIAH J. PIATT. [L. S.]
EDWARD R. PIATT. [L. S.]

Witnesses:
W. E. HIGGINS,
J. N. WHITEHEAD.