W. M. TOWERS.

Plow.

No. 197,691. Patented Nov. 27, 1877.

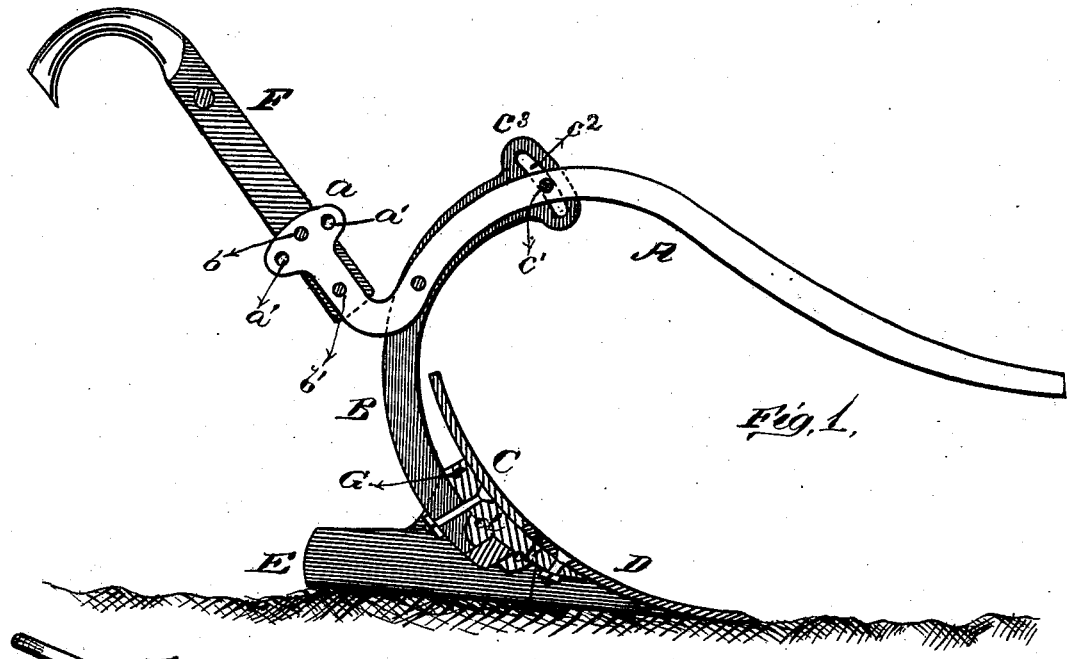

Fig. 1.

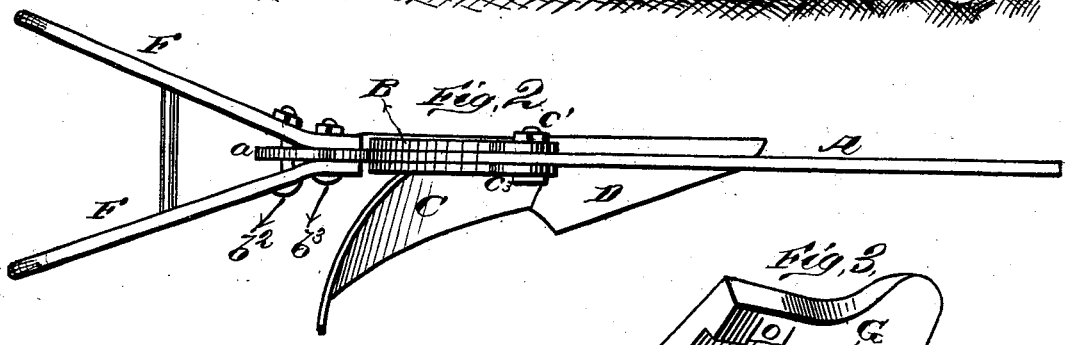

Fig. 2.

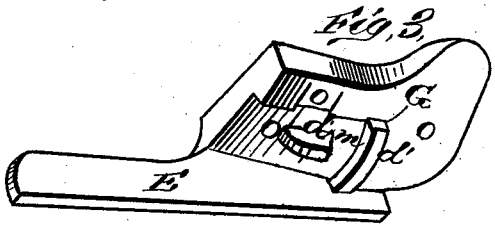

Fig. 3.

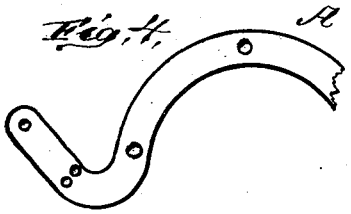

Fig. 4.

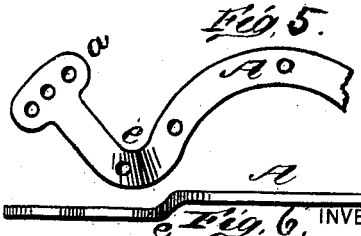

Fig. 5.

Fig. 6.

WITNESSES

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IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **197,691,** dated November 27, 1877; application filed September 29, 1877.

To all whom it may concern:

Be it known that I, WILLIAM M. TOWERS, of the city of Rome, in the county of Floyd and State of Georgia, have invented a new and useful Improvement in Plows; and I do hereby declare that the following is a clear and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

Figure 1 of the drawings represents a vertical sectional view of my improved plow. Fig. 2 designates a top or plan view of the same; and Figs. 3, 4, 5, and 6 represent detail views.

My invention relates to improvements in plows; and consists, mainly, in the employment of certain devices for adjusting the plow-handles, to adapt them to plowmen of different heights, and also in certain details of construction, as will be hereinafter more fully set forth.

In the accompanying drawings, A represents a plow-beam, curved as shown, and having a reversed bend at its rear end, terminating in an enlargement, *a*, provided with adjusting-holes *a' b*, for the passage of a screw-threaded bolt, b^2, provided with a nut. F represents the plow-handles, straddling and attached to the rear end of the beam A, by the bolts b^2 b^3, provided with nuts, as shown in Fig. 2 of the drawing, which bolts pass through the hole *b*, and one of the perforations in the enlargement *a*.

By removing the bolt b^2 the handles can be turned on the pivotal bolt b^3 as an axis, and the vertical angle of the handles can be changed to adapt them to plowmen of different heights by inserting the bolt in one of the holes in the enlargement *a*, and screwing up its nut.

B represents a bifurcated standard, provided with an enlargement or plate, c^3, at the upper end of each bifurcation, which enlargement is slotted at c^2 for the passage of a bolt, c^1, which passes through the slots, and a perforation in the plow-beam, which is embraced by the bifurcated parts of the standard. One end of the headed bolt c^1 is screw-threaded to receive a nut, and the outer faces of the enlargements c^3 are serrated along the slots, to hold the bolt-head and nut in position in adjusting the plow-beam to different heights, the beam turning on the bolt *c* as an axis.

C represents the mold-board, and D the share, both bolted to the block or projection G, cast or made in one piece with the land-side E.

m (see Fig. 3) designates a recess in the projection G, provided with a hole for the passage of a screw-threaded bolt having a nut at its end, which bolt passes between the bifurcations in the lower end of the standard. The foot of the standard rests against the projection *d'*, and the standard is securely held in position, and all lateral motion prevented, by the projection *d*, which passes up between the bifurcations of the standard, in conjunction with the bolt and nut and the projection *d'*.

Fig. 4 represents a modification of Fig. 1, in which the holes are reversed, the pivotal line or axis on which the handles turn in adjusting them being at the rear end of the beam.

Figs. 5 and 6 designate a curved plow-beam, having a reversed bend at its rear end, terminating in a perforated enlargement, and provided with a side bend or offset, *e*, made either to the right or left, to enable the plowman to walk directly in the furrow made by the plow.

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

1. The land-side E, provided with the recessed projecting arm G, having the projections *d d'*, in combination with the bifurcated standard B, substantially as described, and for the purpose set forth.

2. The curved plow-beam A, having a reverse bend at its rear end and offset *e*, substantially as described, and for the purpose set forth.

3. The curved plow-beam A, having an offset, *e*, a reversed bend at its rear end, and perforated enlargement *a*, in combination with the bifurcated standard B and adjustable handles F, substantially as described, and for the purpose set forth.

W. M. TOWERS.

Witnesses:

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JNO. M. BOWIE.