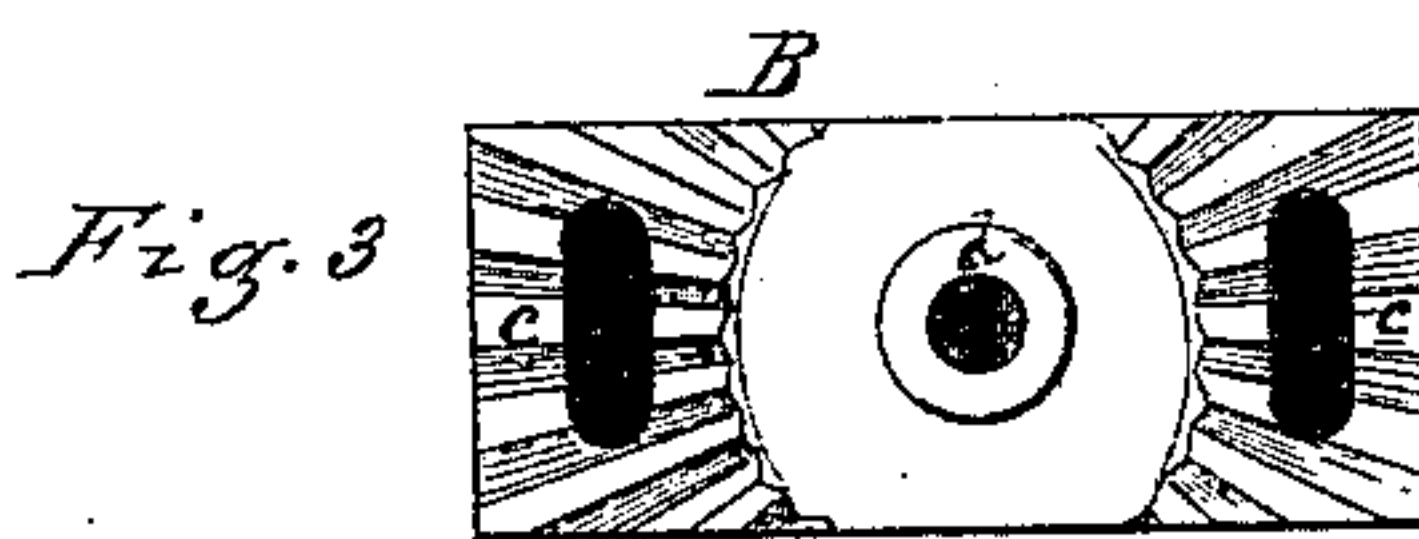
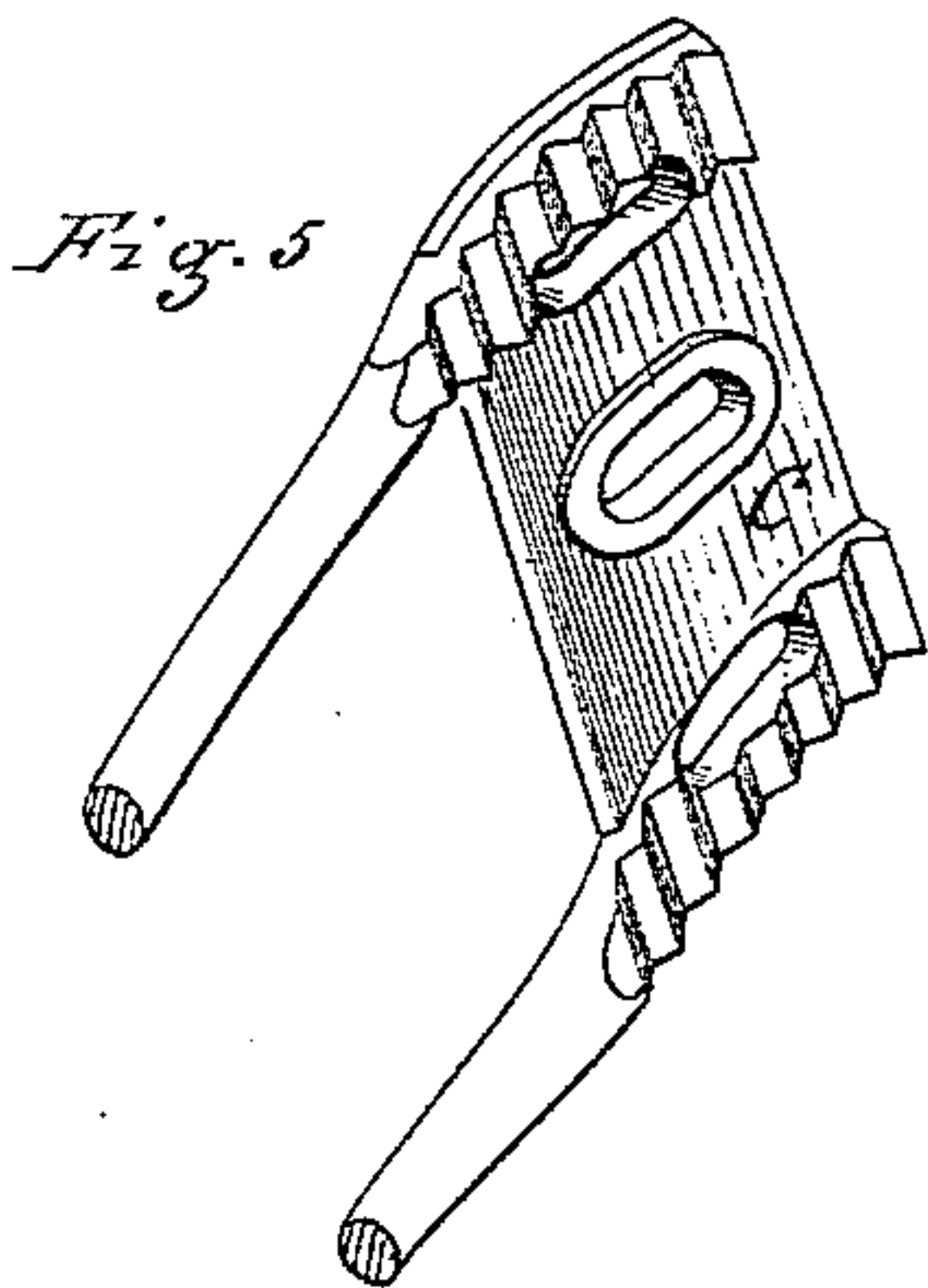
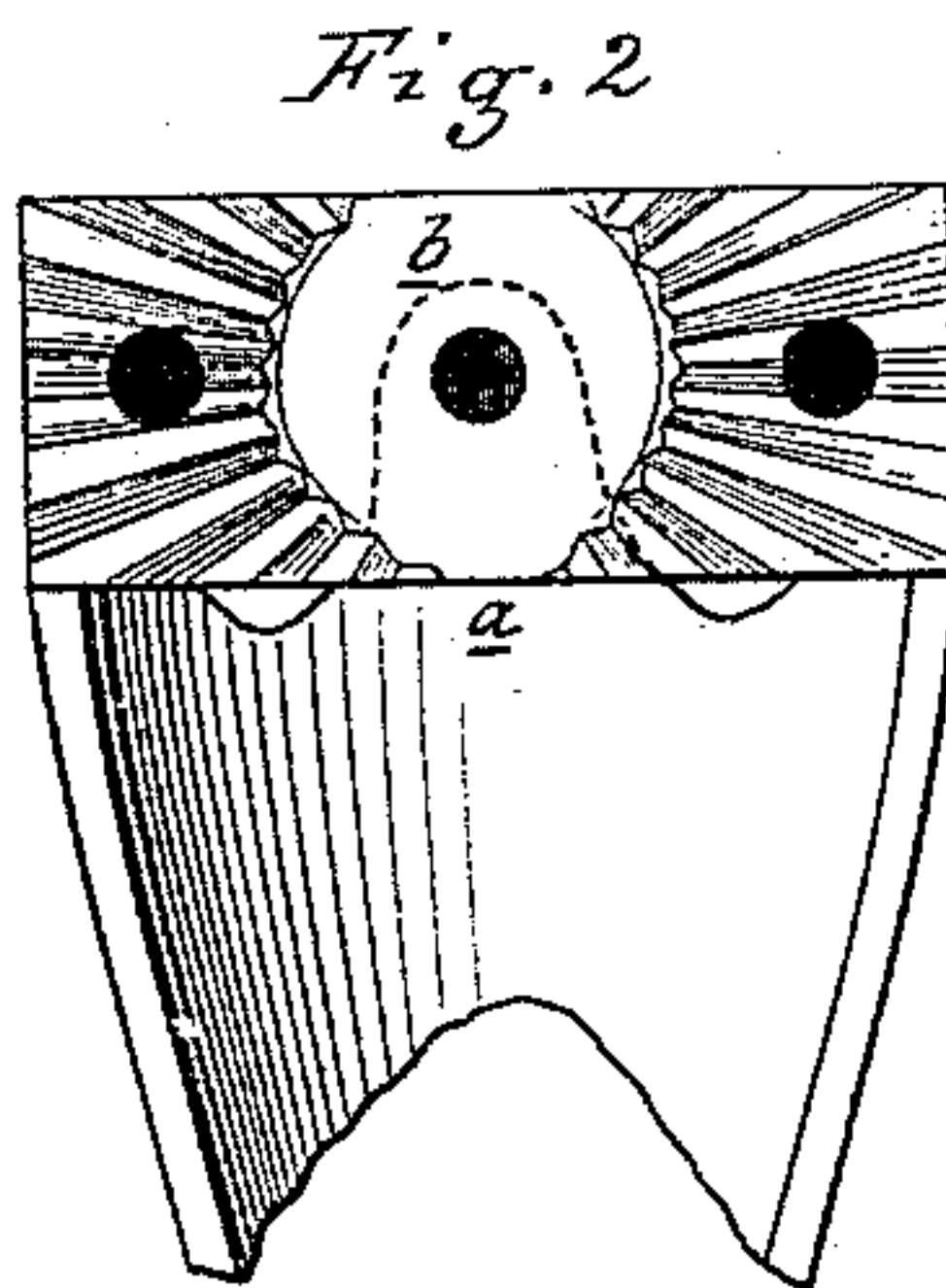
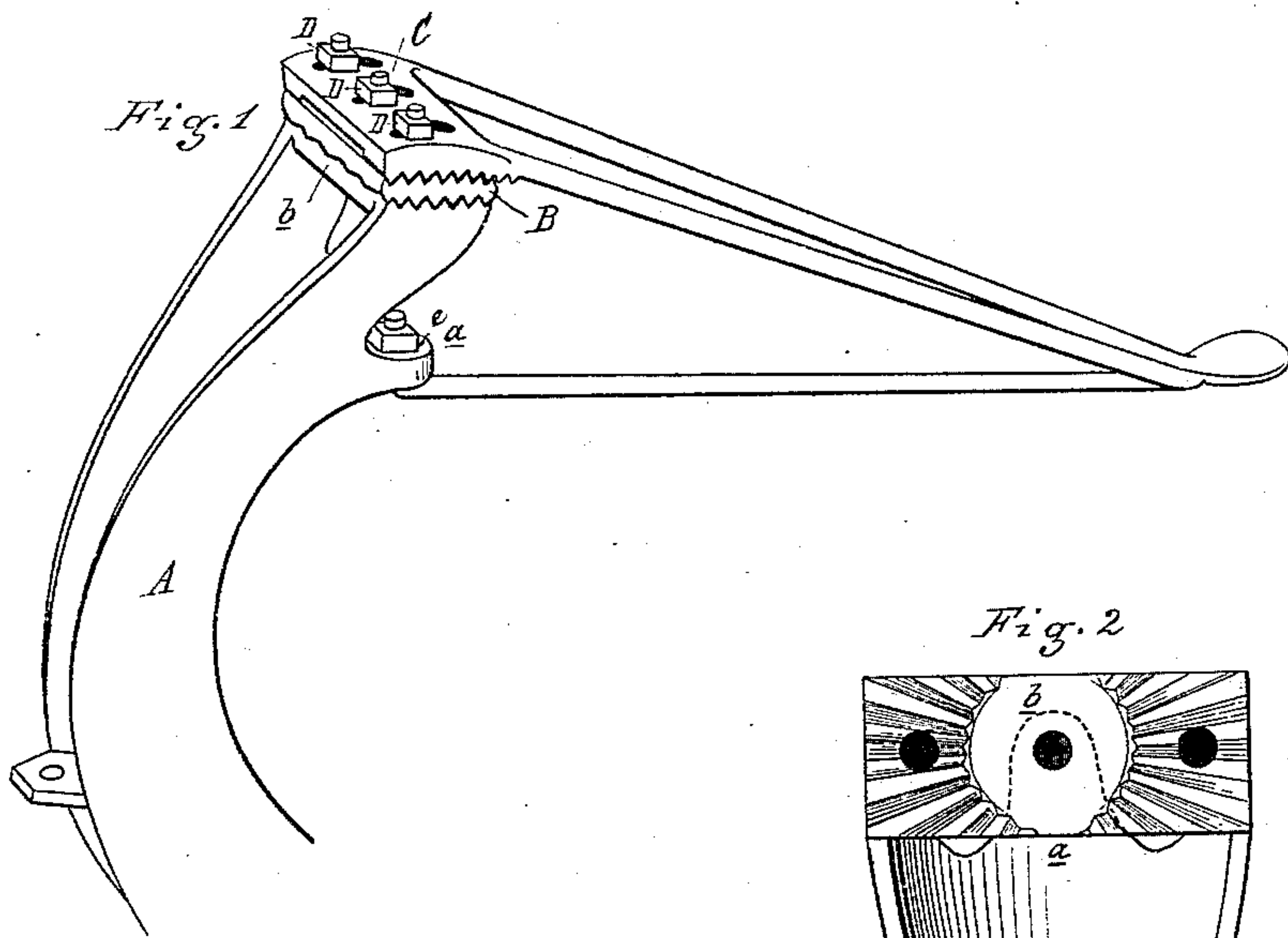


J. J. ALLEY.
Plow.

No. 226,150

Patented April 6, 1880.



Attest:
A. Barthol
Charles J. Hunt

Inventor:
John J. Alley
By atty
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

JOHN J. ALLEY, OF ALBION, MICHIGAN.

PLOW.

SPECIFICATION forming part of Letters Patent No. 226,150, dated April 6, 1880.

Application filed January 8, 1880.

To all whom it may concern:

Be it known that I, JOHN J. ALLEY, of Albion, in the county of Calhoun and State of Michigan, have invented an Improvement in Plows, of which the following is a specification.

The nature of my invention relates to certain new and useful improvements in the construction of plows; and it consists in the peculiar manner, hereinafter described, of securing the adjustability of the skeleton-beam, such beam being described in the patent to Horatio Gale, No. 189,722, April 17, 1877.

Figure 1 is a perspective view of my improved plow, showing the standard, the skeleton-beam, and the attachments securing the two together. Fig. 2 is a perspective of the top of the standard, showing the radial corrugations. Fig. 3 is a plan view of the bottom of the plate which rests on top of the standard, provided with radial corrugations. Fig. 4 shows the reverse side of plate Fig. 3. Fig. 5 is a perspective of the bottom of the plate, to which a portion of the skeleton-frame is attached.

In the accompanying drawings, which form a part of this specification, A represents a curved plow-standard, cast with a perforated lug, *a*, and with a plate, *b*, upon the top. This plate is perforated at three points, as shown, the center perforation being in vertical line with the perforation in the lug, and the upper side of this plate is radially corrugated from said central perforation.

B is a plate provided with a central perforation, *d*, which, when the plate is in place, is in vertical line with the perforation *e* in the lug heretofore described. The lower side of this plate is flat and provided with raised radial corrugations, as shown, which engage with the radial corrugations on the standard-plate. Through this plate there are two slots, *c*, one being near each end, and coincident with the outer holes or perforations in plate on top of the standard. The upper side of this plate is slightly convex and provided with parallel corrugations, as shown.

C is another plate, slightly concave upon its lower face, where it is provided with parallel corrugations to engage with the similar corrugations on the upper side of the plate B. This plate is provided with three slots, each of them coincident with the slots and perforations in the hereinbefore-described plates, and to it are rigidly secured the two upper rods of the skeleton-beam, while the lower one is pivotally secured through the perforation in the lug *a*.

It will be noticed that by the means herein described the outer end of the beam may be raised or lowered at will by first loosening the bolts D, which secure the parts together, and elevating or depressing the end of the beam until the desired pitch is attained, when, the bolts being again tightened, the corrugations between the two upper plates are compelled to rigidly engage.

To change the line of draft the bolts should be slightly loosened, when the end of the beam may be carried to the right or left, the perforation in the lug forming the point of radiation, when, the bolts being again tightened, the radial corrugations between the two lower plates are compelled rigidly to engage.

What I claim as my invention is—

The combination, with a plow-standard, A, provided with a central perforated lug, *a*, and radially-corrugated top plate, *b*, having side and central perforations, of the plate B, having its lower face flat, radially corrugated, and provided with a central perforation, *d*, and slots *c*, and its upper face convex, with parallel end corrugations, concave upper plate, C, having end corrugations on its lower face, and a central and side slots, and the skeleton-frame attached to the standard by bolts, substantially as described, and for the purpose set forth.

JOHN J. ALLEY.

Witnesses:

H. S. SPRAGUE,
CHAS. J. HUNT.