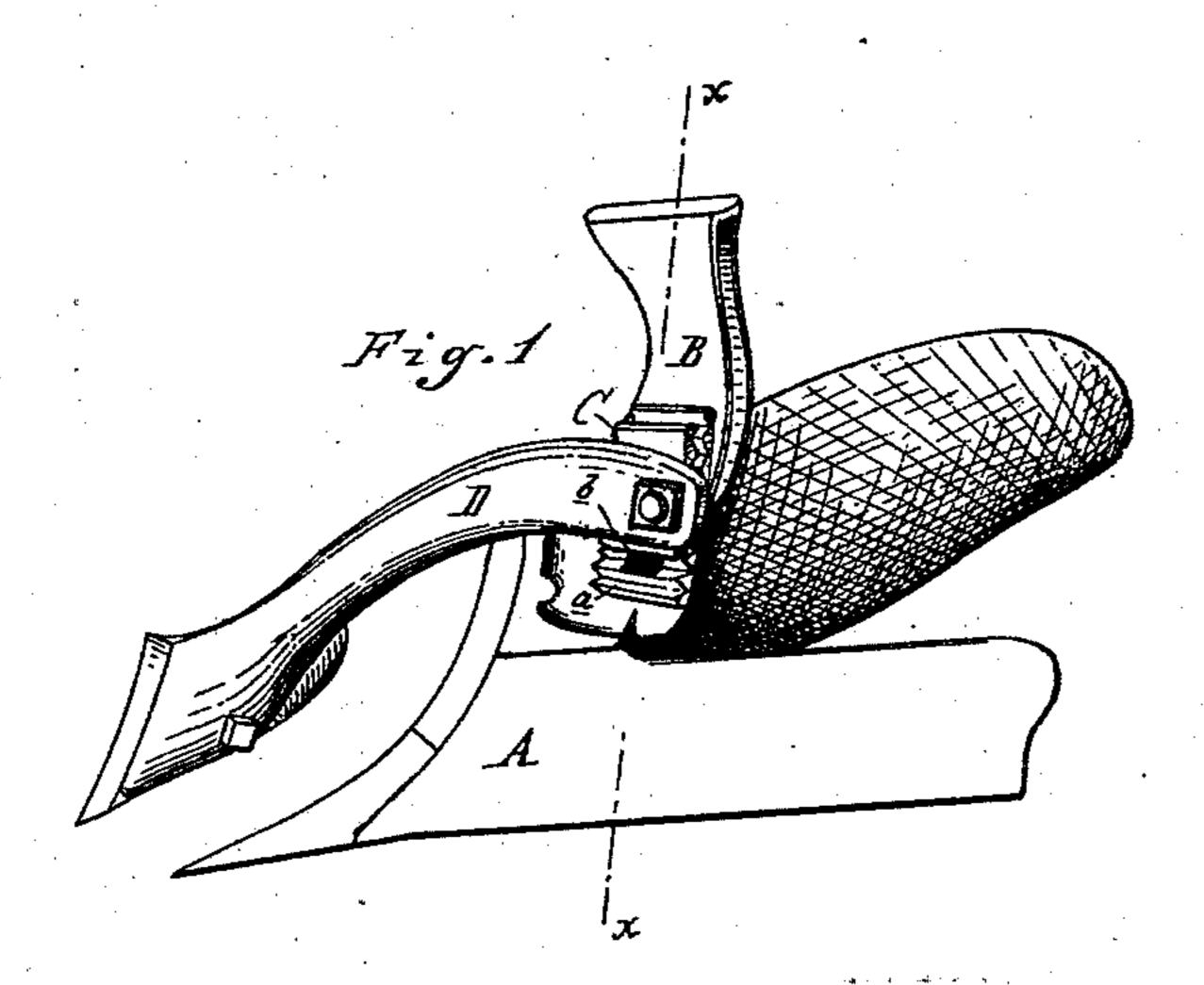
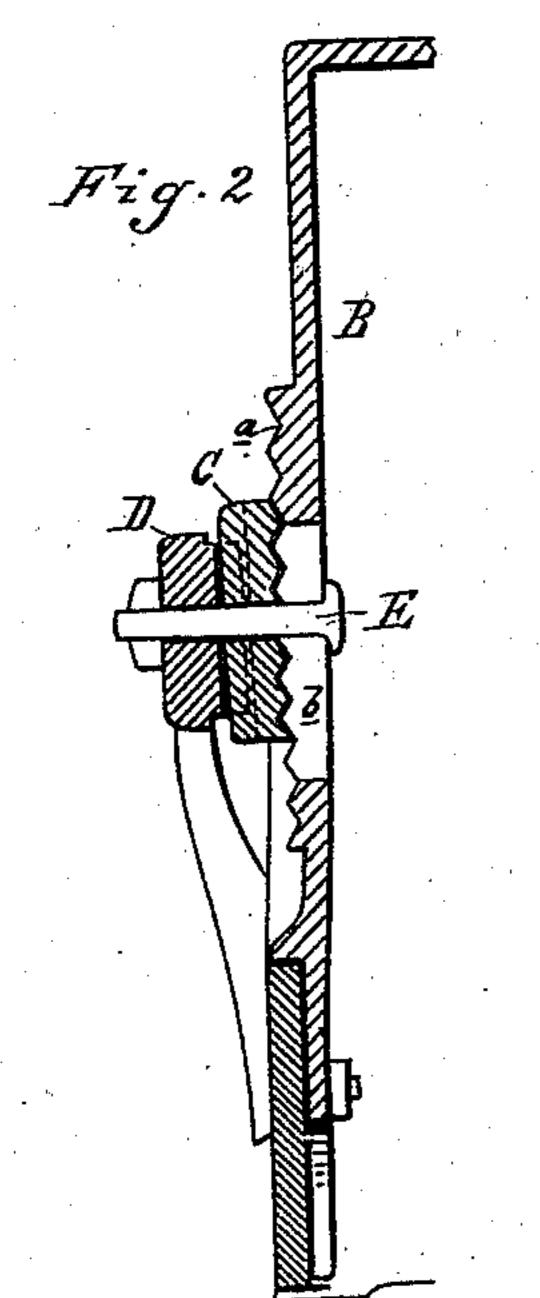
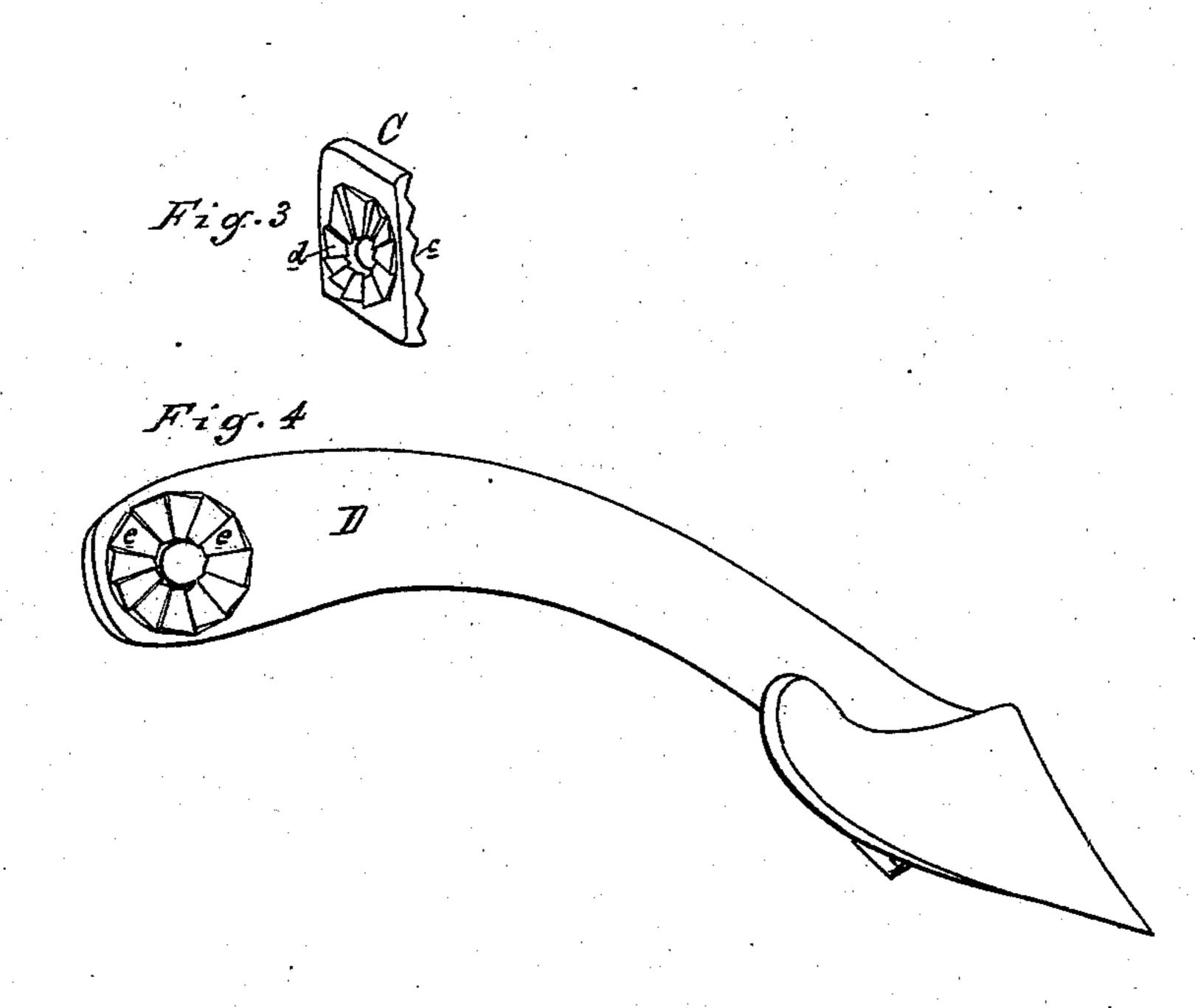
J. G. GROSS.
Plow.

No. 225,053.

Patented Mar. 2, 1880.







Attest: A. Barthel & P. Grague Jaku G. From By Mos S. Sprague Atty.

United States Patent Office.

JOHN G. GROSS, OF SALINE, MICHIGAN.

PLOW.

SPECIFICATION forming part of Letters Patent No. 225,053, dated March 2, 1880.

Application filed August 20, 1879.

To all whom it may concern:

Be it known that I, John G. Gross, of Saline, in the county of Washtenaw and State of Michigan, have invented an Improvement in Plows, of which the following is a specification.

The nature of this invention relates to certain new and useful improvements in the construction and application of plow-jointers, and in providing a means that shall admit of a vertical and radial adjustment to the same, in order that the depth of furrow and pitch of the jointer can be regulated as desired.

The invention consists in the peculiar construction and arrangement of parts to accomplish the desired results, all as more fully hereinafter set forth.

In the drawings, Figure 1 is a perspective view. Fig. 2 is a vertical cross-section on line 20 x x. Fig. 3 is a detached perspective of the adjustable serrated plate. Fig. 4 is an elevation of the inner end of the jointer-arm, showing serrations upon its side.

In the accompanying drawings, which form a part of this specification, A represents a plow, and B the standard of a plow, of the ordinary construction.

Upon the land side of the standard there are cast the horizontal serrations a, and 30 through these serrations and the standard is a slot, b.

C is a malleable-iron plate, upon one side of which are formed the horizontal serrations c, which engage, when in place, with the serrations a upon the standard. Upon the outer or 35 opposite face of this plate C are east the radial serrations d, and upon the inner face of the rear end of the jointer-arm D are cast or otherwise formed radial serrations e, which engage with the similar serrations d upon the 40 plate C, the whole being secured together by means of a bolt, E.

By this means of construction and attachment I am enabled to vertically adjust the jointer-arm so as to regulate the depth of 45 furrow to be cut by the jointer, and also to radially adjust it to regulate the pitch of the same.

What I claim as my invention is—
The combination, with the plow-standard B, 50 having a slotted and serrated face, of the plate C, having one side serrated and the other provided with a ratchet disk or rosette, the jointerarm D, having a corresponding disk, and the bolt E, passing through the slot of the standard, and through such plate and the jointerarm, securing the parts adjustably together, substantially as described and shown.

JOHN G. GROSS.

Witnesses:

H. S. SPRAGUE, A. BARTHEL.