A. RODEN.

Plow.

No. 29,823. Patented Aug. 28, 1860.

Fig. 1.

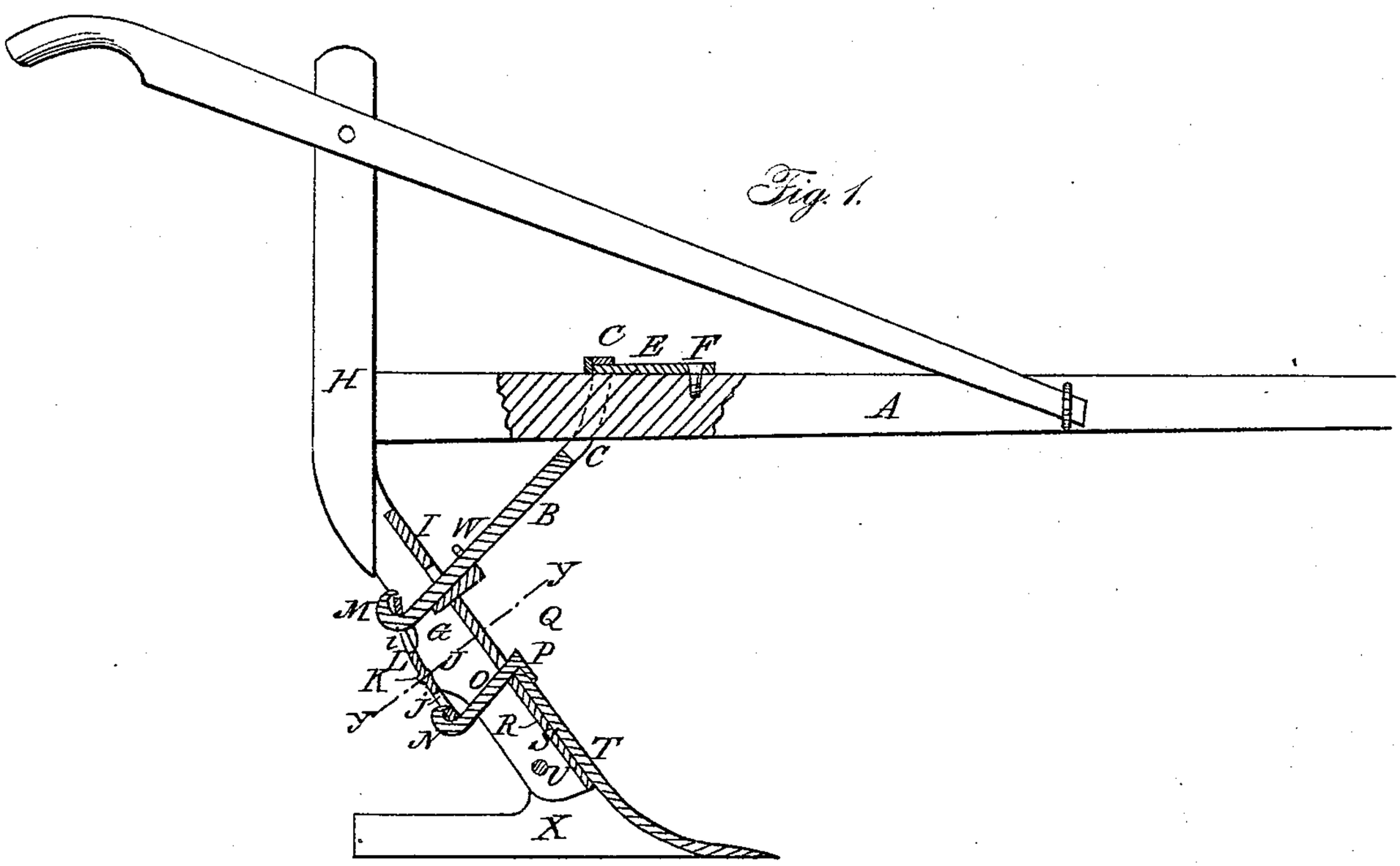


Fig. 2.

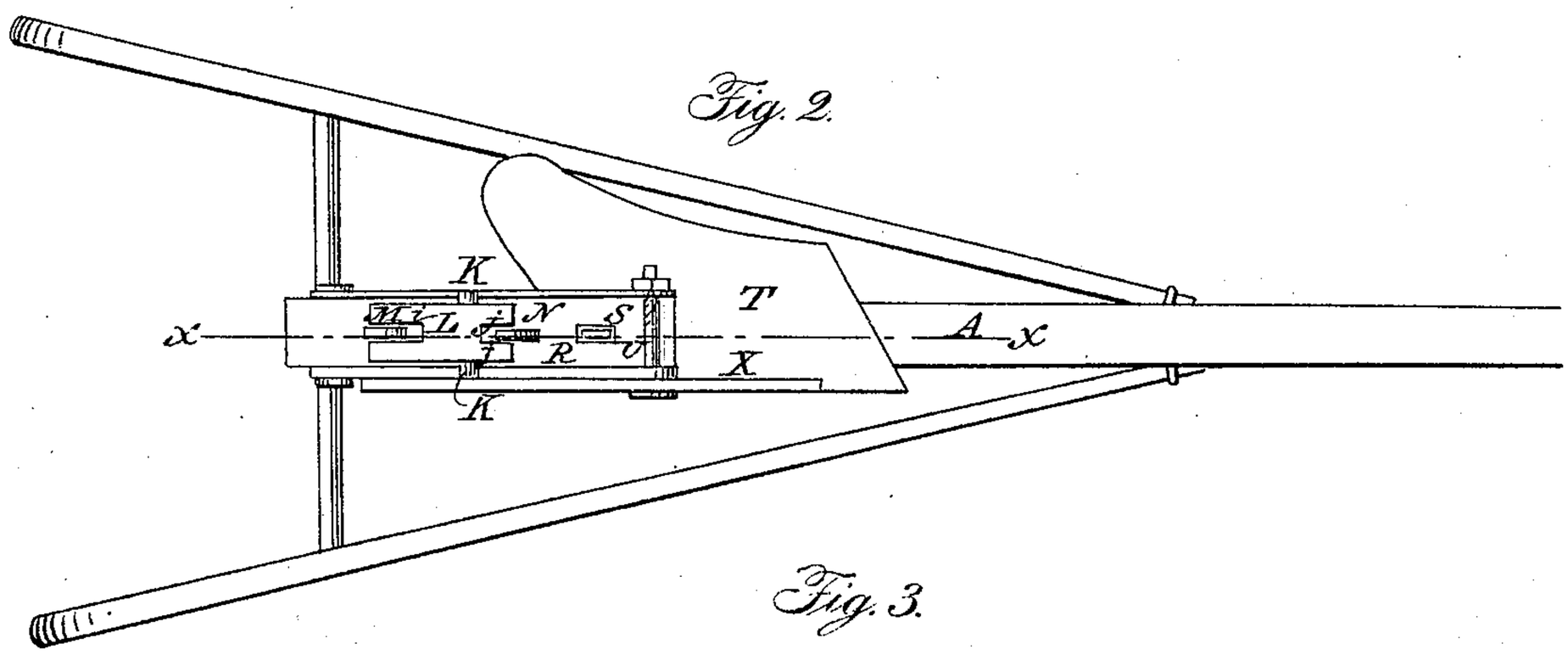
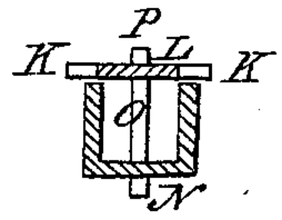


Fig. 3.



Witnesses:

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Attys

UNITED STATES PATENT OFFICE.

A. RODEN, OF TALLADEGA, GEORGIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **29,823**, dated August 28, 1860.

To all whom it may concern:

Be it known that I, A. RODEN, of the city and county of Talladega and State of Georgia, have invented a new and useful Improvement in Plows; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part this specification, in which—

Figure 1 represents a vertical longitudinal section, and Fig. 2 a bottom view, of the implement. Fig. 3 is a section of the plow-standard on line *y y* of Fig. 1.

Similar letters of reference in each of the several figures indicate corresponding parts.

The nature of my invention consists in a sliding loop-brace, in combination with a wedge, slotted swinging plate, mold-board retaining-hook, and standard, the whole constructed substantially as hereinafter set forth.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The standard G, to which the mold-board T and landside X are attached, is hung to the rear end of the plow-beam A at H by means of a bolt, H. On this bolt as a fulcrum the standard, with the parts attached to it, can be swung backward or forward and secured in any desirable position, by means hereinafter to be described, for the purpose of plowing deep or shallow, as may be desired. This adjustability of the plow and the peculiar means for effecting it form the subject-matter of my invention.

The standard G consists of a flat face and two side wings, thus forming a structure light and strong at the same time. The face of the standard is provided with three slots, I, Q, and R, the lowest of which, R, has the lower edge beveled inwardly for the reception of a corresponding projection, S, on the back of the mold-board T.

A plate, L, provided with slots *i j* near the two ends of the plate, has a pivot, K, projecting from each of its sides. These pivots have their bearings in semicircular recesses J in the rear edges of the side wings of the standard G.

The mold-board is secured in its place by a double hook, N O P, which is slipped through slot Q, so that the upper hook, P, overlaps the upper edge of the mold-board while the lower hook, N, gripes the lower end of plate L, the point of hook N taking into slot *j*.

The hook M of a brace, B, is passed through the slot I in the face of the standard, and through the slot *i* in the plate L so as to gripe the upper end of plate L.

A wedge, V, hung to brace B by means of a ring, W, is driven in between the brace B and the lower edge of slot I, while the upper end of the brace extends into a loop, C, which embraces the plow-beam A, and a plate, D, on top of the plow-beam. The loop bears against a projection at the rear end of the plate D. This plate D, together with the loop hung to it, can be adjusted more or less forward or backward by inserting the screw F through either of the holes E or F in the plate.

It will be seen that on adjusting the plate forward or backward the standard G, with the parts attached to it, will be made to swing forward or backward, the bolt H being the center of such motion, and thus the plow can be set for plowing deep or shallow.

It will also be seen that the fastenings of this plow are self-tightening on setting the implement to work. The upper edge of the mold-board bearing against hook P draws the rear hook, N, tight against the lower end of plate L. This imparts to the other end of plate L a tendency to pull backward so as to bear hard against the hook M of brace B. By this means it will be seen the fastenings are made to be self-tightening while the plow is in use.

What I claim as my invention, and desire to secure by Letters Patent, is—

A sliding loop-brace, B C M, in combination with a wedge, V W, slotted swinging plate L, mold-board retaining-hook O P N, and standard G, the whole constructed substantially as and for the purposes set forth.

The above specification of my improvement in plows signed by me this 7th day of July, 1860.

A. RODEN.

Witnesses:

N. D. MOSTELLER,

WM. WRIGHT.