

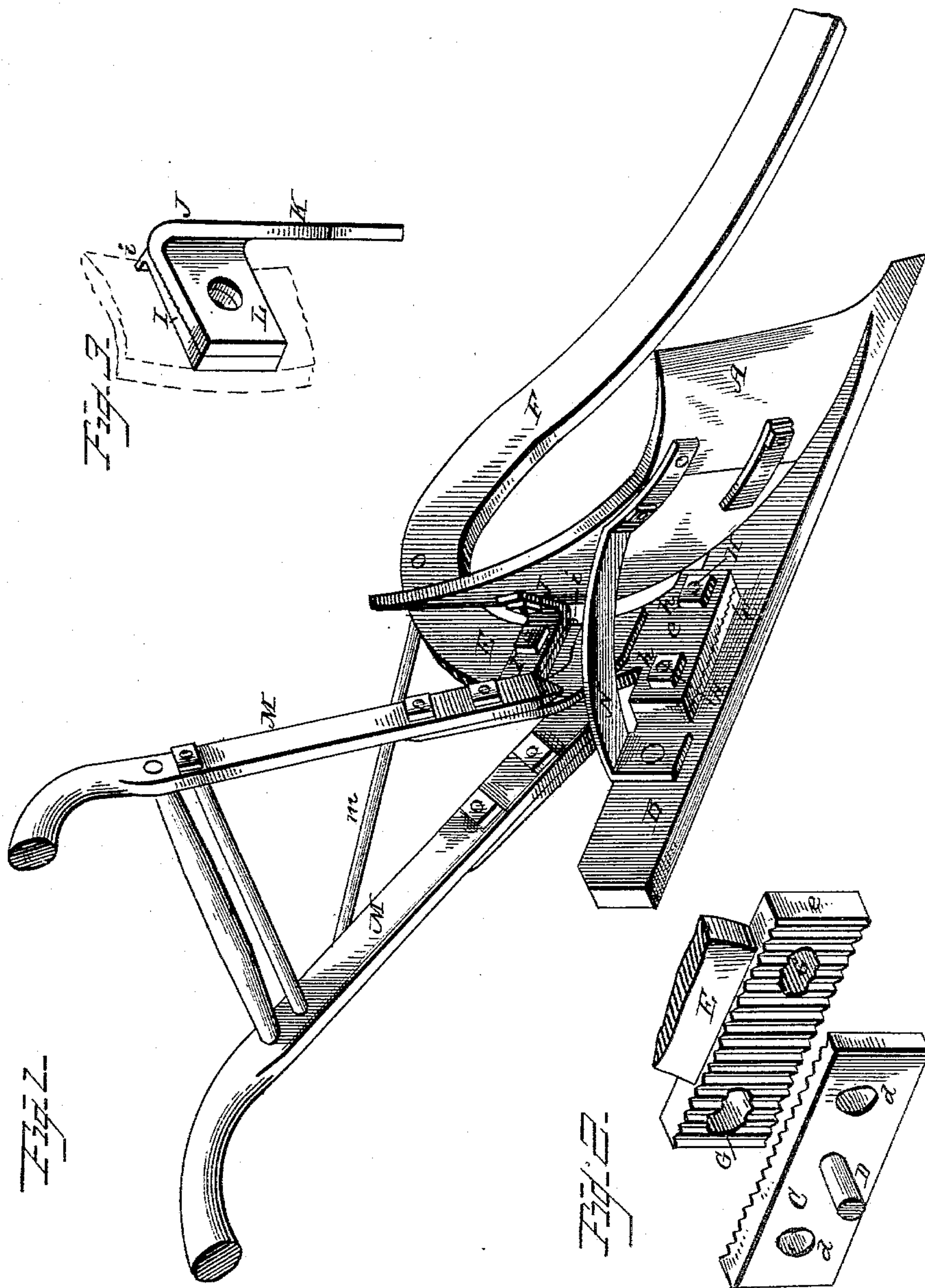
(No Model.)

D. E. FISH.

PLOW.

No. 300,457.

Patented June 17, 1884.



WITNESSES
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PLOW.

SPECIFICATION forming part of Letters Patent No. 300,457, dated June 17, 1884.

Application filed March 22, 1884. (No model.)

To all whom it may concern:

Be it known that I, DANIEL E. FISH, a citizen of the United States, residing at Worthington, in the county of Nobles and State of Minnesota, have invented certain new and useful Improvements 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 annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

My invention relates to plows, and has for its object to provide means whereby the beam and mold-board may be adjusted relatively, so as to throw the plow-point low or high, and also to set the mold-board to take more or less land, as desired. I accomplish these results by the devices shown in accompanying drawings, in which—

Figure 1 is a perspective view of the under side of a plow. Fig. 2 is a detail view of the parts connecting the foot of the standard and the landside, and Fig. 3 is a detail view of the parts connecting the mold-board and the upper end of the standard, all of which will be described.

The mold-board A and the landside B are of ordinary construction, except that the latter is provided about midway its ends with three transverse holes, for the passage of the bolts and pivot-stud which secure the serrated landside-block in place. This landside-block C is provided on its inner face with a centrally-arranged stud, D, fitted to be passed into the central one of the holes in the landside before described. Holes *d d* are formed through the block near its ends, to permit the passage of the retaining-bolts. These holes are elongated vertically, to admit of a slight rocking motion of the block as the standard is adjusted. The inner face of the landside-block is tapered from end to end, as most clearly shown in Fig. 2, and is provided with a series of transverse serrations. The standard E is preferably bent from the rear end of beam F, and has its foot *e* adapted to engage the landside-block. This foot-piece is provided with serrations corresponding to those in the landside-block, and also with bolt-holes G, which are elongated to permit the ad-

justment of said foot along said block, in the manner presently described. Bolts H H are passed through the openings in the landside, the block C, and the standard-foot, and have nuts *h h* turned against the foot *e* and clamping said part, the block, and the landside together.

By the before-described construction it will be seen the landside is adjustable forward or back on the foot of the standard, and may be secured at any point desired. This adjustment, when the standard and mold-board are pivoted together at their upper ends, effects the lowering or elevating of the point of the plow, and causes same to run deeper or shallower, according to the team or the class of work being done. Now, it will be seen that by removing the retaining-bolts H and reversing or revolving the landside-block half-way round on its pivot or stud the taper runs in an opposite direction from before. By this construction I am enabled to throw the point of the plow to and from the land, so as to cut a wider or narrower furrow, as desired.

I prefer to connect the upper end of the standard and the mold-board by the block I and the double-winged coupling-plate J. The standard-block I has a bolt-hole, and is provided with a flange, *i*, turned from one end over one edge of the standard. This flange prevents any rotary movement of the plate on its retaining-bolt. The block I is tapered from end to end, and has its inner face serrated similar to the landside-block before described.

The coupling J has the wings K L, one of which, K, is bolted to the mold-board, and the other, L, is provided with a bolt-hole, and is serrated on its inner face and operates in connection with the standard-block, as will be readily understood. This construction permits the adjustments accomplished by the landside-block and the standard-foot, and provides a firm, strong connection, which, by loosening the retaining-bolt, will serve as a pivot. The handles M are secured to the standard near the lower end thereof, and are braced by a rod, *m*, connecting the upper end of the standard and one of the handles. A bar, N, interposed be-

tween the landside and mold-board, serves to strengthen the parts. The devices for adjusting the standard and mold-board enable the adjustment thereof in such manner as to preserve the center draft.

It is manifest that a greater adjustment of the mold-board to or from the land could be accomplished by interposing suitable blocks between the landside-block and the foot of the standard.

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

1. The combination of the landside, the landside-block having a central pivot or stud seated in a suitable opening in the landside, and provided with a series of serrations on its inner face, the standard pivoted at its upper end and having its foot provided with elongated bolt-holes, and serrated on its inner face, and the retaining-bolts, substantially as set forth.

2. The combination, with the standard and the mold-board, of the serrated standard-block provided at one end with a flange embracing one edge of the standard, and the double-

winged coupling-plate having one wing secured to the mold-board, and its other wing serrated and engaging the standard-block and the retaining-bolt, substantially as set forth.

3. The combination, substantially as set forth, of the mold-board, the landside, the tapered landside-block having a pivot-stud and serrated on its inner face, the standard having a foot provided with elongated bolt-holes and serrated on its inner face, the retaining-bolts, the standard-block secured to the upper end of the standard and serrated on its inner face, and the double-winged coupling-plate having one wing secured to the mold-board, and its other wing serrated and bolted to the standard-block, as and for the purposes specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DANIEL E. FISH.

Witnesses:

M. P. MANN,

C. B. LOVELESS.