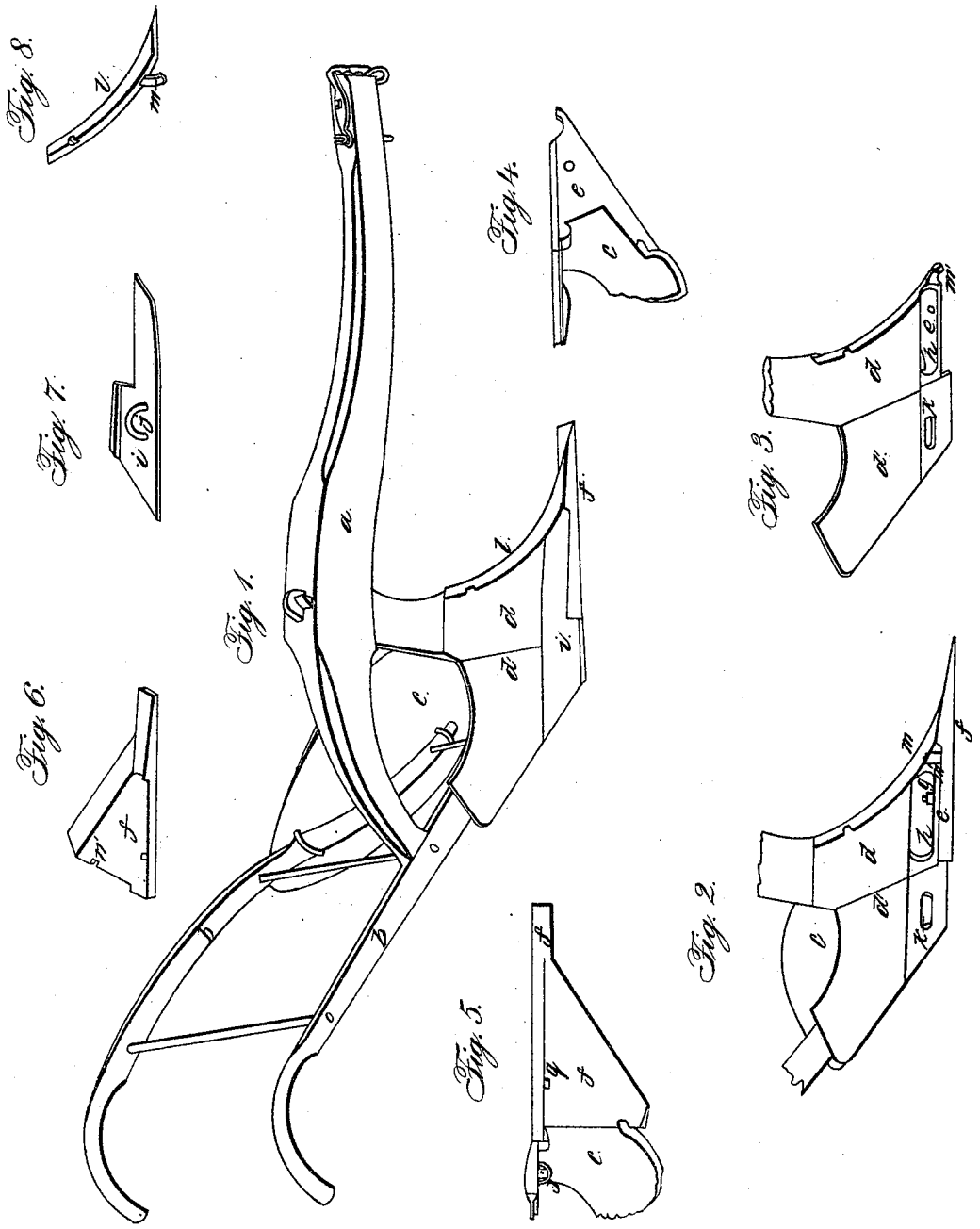
B. SEYLER.

Plow.

No. 6,788. Patented Oct. 16, 1849.



UNITED STATES PATENT OFFICE.

BENJ. SEYLER, OF MERCERSBURG, PENNSYLVANIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **6,788**, dated October 16, 1849.

To all whom it may concern:

Be it known that I, BENJAMIN SEYLER, of Mercersburg, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in the Construction of Plows, of which the following is a full and exact description, reference being had to the annexed drawings of the same, making part of this specification, in which—

Figure 1 is a perspective view of the plow, looking upon the landside. Fig. 2 is a side elevation with the lock-piece of the landside removed. Fig. 3 is a perspective view of the same, with the lock-piece, share, and cutter removed. Fig. 4 is a plan of the sole inverted, with the share and lock-piece of the landside removed. Fig. 5 is another view of the same, with the several parts in place. Fig. 6 is a perspective view of the share detached. Fig. 7 is a perspective view of the lock-piece of the landside detached. Fig. 8 is a view of the cutter detached.

The same letters indicate the same parts in all the figures.

In the accompanying drawings, the beam *a*, handles *b*, mold-board *c*, fixed landside *d*, and removable landside *d'* are represented as being made in their general construction of the usual form, and therefore do not require a particular description in order to be understood, an inspection of the drawings being sufficient for this purpose.

Instead of leaving the sole of the plow open I have joined the lower edges of the mold-board *c* and landside *d* by means of a sole-plate, *e*, Figs. 3 and 4, which greatly strengthens the front of the plow, furnishes a broad and firm bearing for the share *f*, and effectually protects the nut *g*, Fig. 2, on the bolt which holds the share in place from being loosened by catching upon roots, stones, or other obstructions, which loosening of the nut is a source of great annoyance and trouble in the common plow. This sole-plate so braces and strengthens the parts most exposed to violence that they may be made much lighter than in the ordinary plow, whereby a considerable saving of metal in the casting is effected, and a corresponding reduction in the friction of the plow when in motion, which of course lessens its draft.

An aperture, *h*, is made in the landside through which to introduce the wrench by which the nut *g*, Fig. 2 is, turned. This aperture is closed by the projecting front end of the face-plate *i* of the removable landside *d'*, which is held in place by a wedge inserted through a loop, *j*, Figs. 5 and 7, that projects from its inner side through an eye, *k*, Figs. 2 and 5, in the landside *d'*. The projecting front end of the plate *i* also locks the cutter *l* in its place by holding the projection *m*, Fig. 8, in the cavity *m'*, Fig. 3, the projection being curved forward so as to catch under the front side of the cavity *m'*, by which it is held down in its place, the upper end of the cutter being held in position by means of a notch formed in its side, which catches upon a projection on the edge of the mold-board. This cutter may be made thin and sharp, of the form represented in Fig. 8, and when worn or broken can readily be replaced by a new one, which being cast from the same pattern as the original will fit accurately in its place.

The share *f* is of the form represented in Fig. 6, and having neither bold projections nor deep cavities is easily cast and fitted. It is held in place by the notch *n'*, and by the screw-bolt *q*, Fig. 5, the head of which is square and fits into an aperture of corresponding shape.

The front end of the mold-board and the cutter are in a vertical plane, and rise about two-thirds of the height from the sole to the beam, where they join the standard, which there takes a sudden bend inward, and then rises up again vertically, which bend causes sods, roots, grass, stubble, or other obstructions which may accumulate upon the cutter to turn off to one side whenever they rise to it.

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

1. Joining the lower edges of the mold-board and fixed landside *d* by means of a sole, *e*, cast in one piece with them, whereby the plow is greatly strengthened and the fastening of the share rendered more secure.

2. Making an aperture, *h*, through the side of the fixed landside, for the purpose of introducing a wrench to turn the nut on the bolt which holds the share to the sole, the aperture being combined with the manner herein described of fastening on the point.

BENJAMIN SEYLER.

Witnesses:
THO. CARSON,
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