S. W. POPE.

PLOW.

No. 178,877. Patented June 20, 1876.

Fig. 1

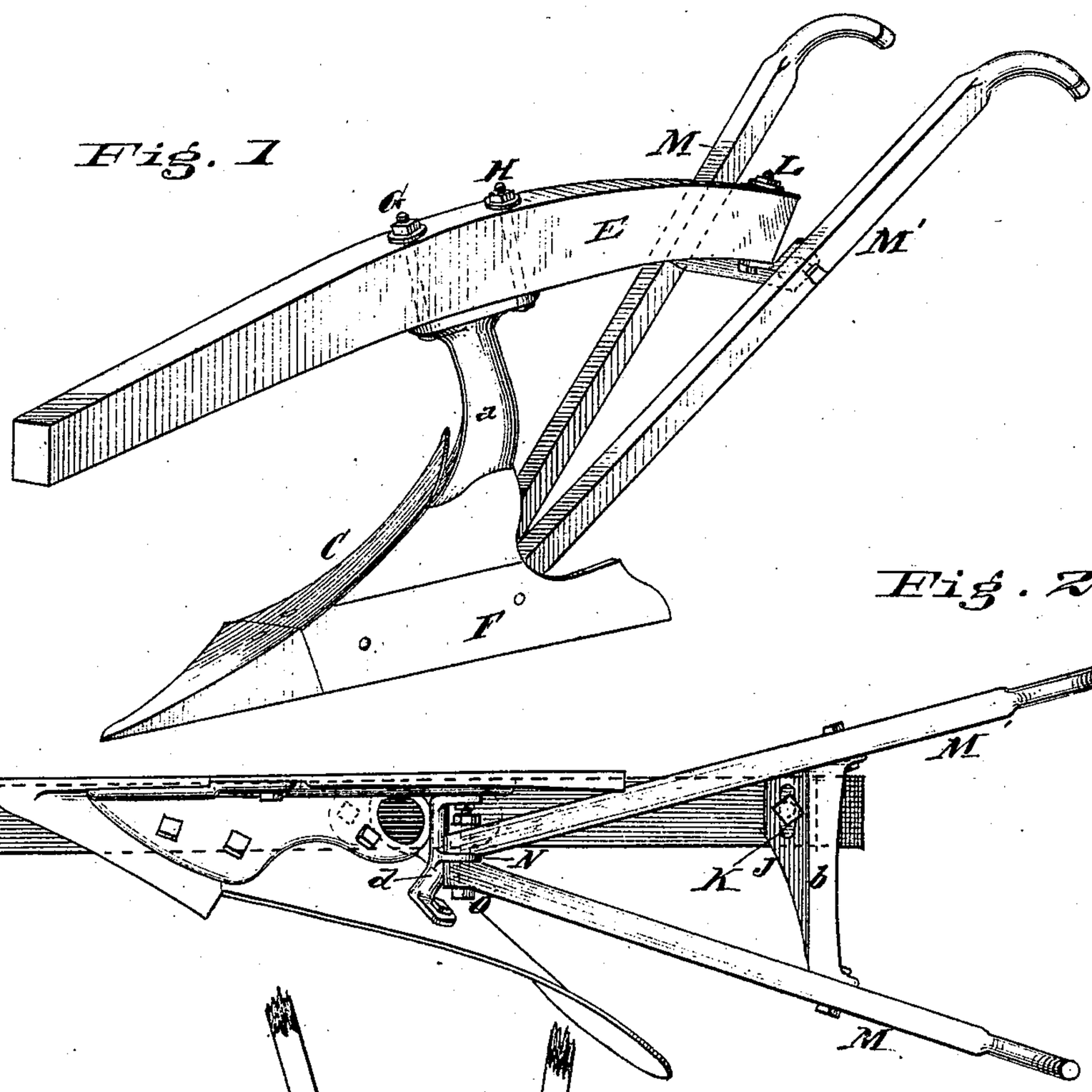

Fig. 2

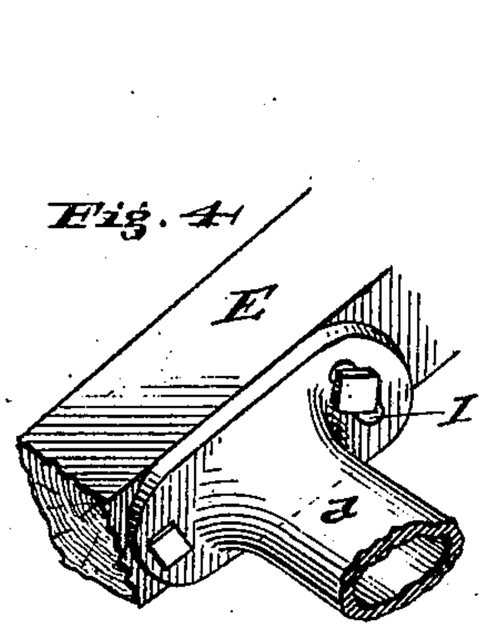

Fig. 4

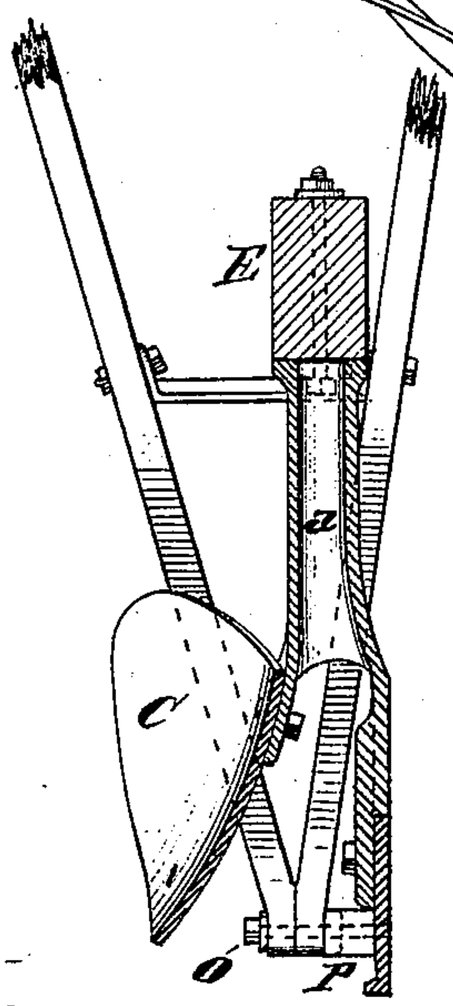

Fig. 3

Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL W. POPE, OF LOUISVILLE, KENTUCKY, ASSIGNOR OF ONE-FOURTH HIS RIGHT TO CHARLES H. POPE, OF SAME PLACE.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **178,877**, dated June 20, 1876; application filed March 13, 1876.

To all whom it may concern:

Be it known that I, SAMUEL W. POPE, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and useful Improvement in Plows, which is fully described in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my plow; Fig. 2, a view of the plow inverted; Fig. 3, a vertical view through the plow-standard, showing also a modified form of attaching the lower ends of the plow-handles; and Fig. 4 is a perspective view of a section of the plow-beam and standard, showing more fully the manner of attaching the standard to the beam.

My invention consists in making the plow-standard hollow, which combines lightness with strength; and also in the method of attaching the beam to the plow-standard at two points in making one attachment adjustable in combination with the adjustable attachment at the end of the beam, where it is attached to the brace between the plow-handles.

My invention further consists in the method of attaching the bottom of the plow-handles between the land-side and mold-board, by which I carry the land-side or beam-handle in from the land away from the land-side, where it is not subjected to the usual wear, and creates no resistance by coming in contact with the land. This enables me to use handles requiring no side bend, and my plow can be readily taken apart for shipment, as all mortises and tenons, and other appliances requiring close fitting, are dispensed with; nor is there any mechanical skill or machinery required to renew the beam or the handles of the plow.

E represents the plow-beam. *a* is the hollow standard, to which the mold-board C and land-side F are attached. The beam rests upon the plow-standard, and is attached thereto by two bolts, G and H, the latter of which passes through a slot, I, in the plow-standard to admit of the beam being turned on the front bolt G for adjustment, so as to cause the plow to run more or less to land.

The plow-standard *a* is made hollow, as clearly shown in Fig. 3, and it also is made with a wide oval front. This construction of the standard combines great strength with lightness, and also presents a form adapted to shed all straw or other material that usually accumulates against the plow-standard and clogs the plow.

b is a brace between the plow-handles, and also serves as a support, upon which the end of the plow-beam rests. This brace *b* has a wide flange, J, with a slot, K, through which the bolt L passes, that secures the rear end of the plow-beam and holds it in position. By loosening the bolts L and H the beam can be turned on the bolt G, and adjusted so as to run more or less to land, as desired. By removing these three bolts the beam may be removed from the plow for shipment or renewal.

It will be observed that the beam is constructed without any mortise or tenon. M M′ are the plow-handles. They have no side bend, and are attached at their lower ends midway between the land-side and the mold-board. *d* is a stretcher or brace extending between the land-side and mold-board, and is provided with a lug or projection, N, to which the lower end of the handles are attached by means of a bolt, O.

In some of the lighter construction of plows it is not necessary to extend the brace *d* entirely across from the land-side to the mold-board of the plow, as it is not absolutely necessary to brace the mold-board of such plows.

I have shown this modified form of attaching the lower end of the handles in Fig. 3, where the bolt O extends through the ends of the handles, support P, and land-side of the plow.

By securing the handles between the land-side and mold-board, I am enabled to dispense with the side bend usually made in plow-handles, and also place them where they receive no wear from the land, and offer no resistance by striking against the land when the plow is in operation.

My method of attaching the plow-handles also admits of very ready removal for shipment or repairs, and enables any farmer with the simplest tools to attach and detach them for the purpose of renewal.

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

1. The standard *a*, having its upper portion tubular, its middle forming the upper face surface of the land-side, and its lower portion flanged to form seats for the land-side, mold-board, and share of a turn-plow, substantially as described.

2. The combination of the straight handles M M′ and the supporting-piece *d*, extending from the land-side to the mold-board, and to which both handles are attached at their lower ends at a point intermediate between the land-side and mold-board, and remote from the land-side, substantially as and for the purpose set forth.

3. The combination of the handles M M′ and brace *d*, provided with a lug or projection, N, and the bolt O, as and for the purposes set forth.

4. The combination of the beam E, brace *b*, and straight handles M M′, connected by the brace *b* only, all constructed without mortise or tenon, and connected together and secured to the plow by screw-bolts only, substantially as and for the purpose set forth.

SAMUEL W. POPE.

Witnesses:
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