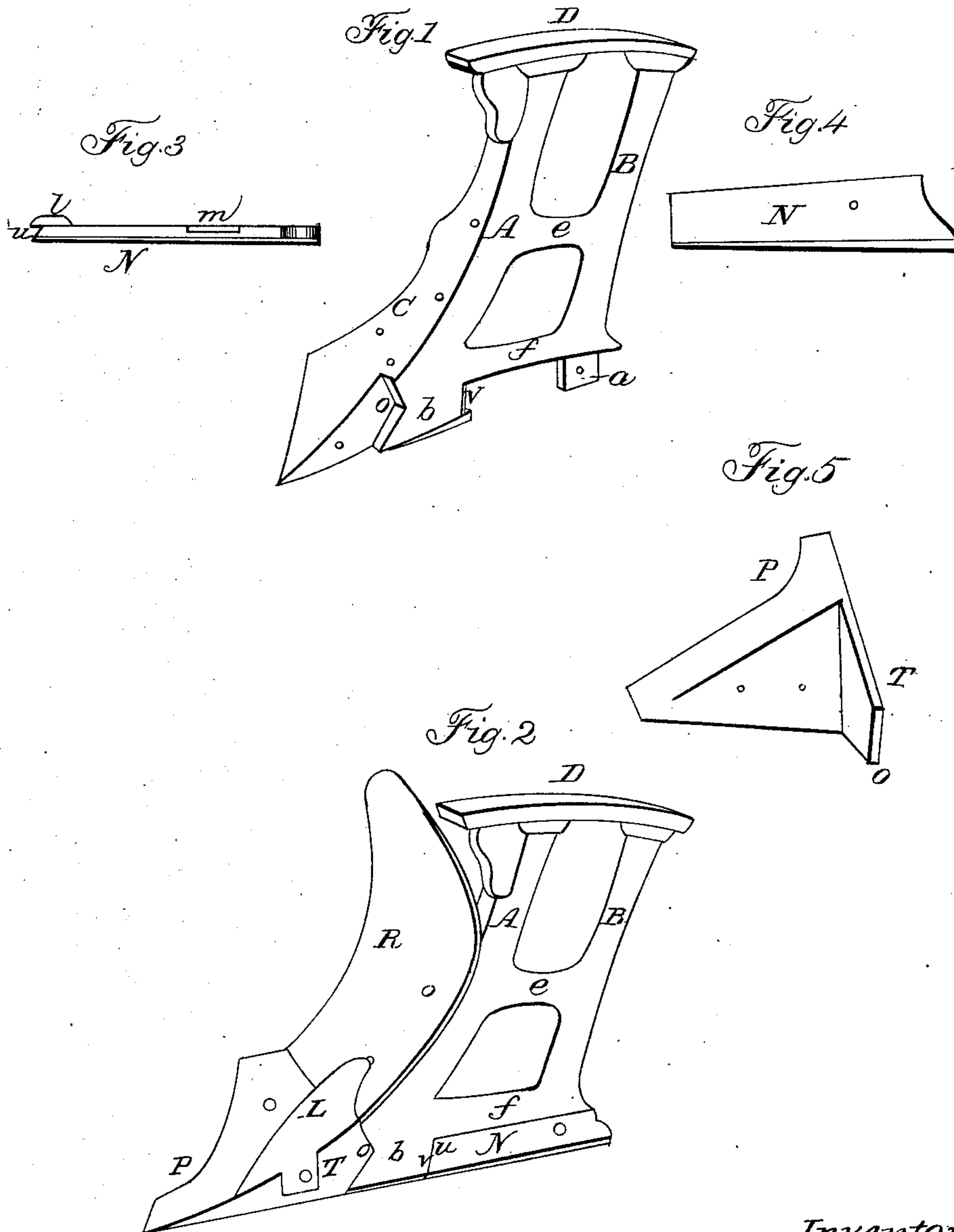


J. G. DODGE.

Plow.

No. 69,643.

Patented Oct. 8, 1867.



Witnesses.  
P. T. Dodge  
Geo W. Griebel

Inventor  
J. G. Dodge  
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Attys

# United States Patent Office.

J. G. DODGE, OF LOUISVILLE, KENTUCKY.

Letters Patent No. 69,643, dated October 8, 1867.

## IMPROVED PLOUGH.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. G. DODGE, of Louisville, in the county of Jefferson, and State of Kentucky, have invented certain new and useful improvements in the construction of Ploughs; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts, wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention consists in a novel construction of the various parts of a plough, whereby it may be cheaply constructed, and easily and cheaply repaired when worn, and at the same time be rendered strong and durable.

Figure 1 is a perspective view of the cast-iron frame.

Figure 2 is a perspective view of the plough complete; and

Figures 3, 4, and 5 are views of portions shown detached.

In constructing my improved plough, I make a frame of cast iron, consisting of a front standard, A, and a rear standard, B, united at the top by a flange, D, at the centre by a flat strip, e, and near the bottom by another strip, f, and having also a projecting flange, c, standing obliquely from the side of the standard A, for the attachment of the mould-board and share, the form of this frame being shown by fig. 1. The standard A extends flush with the surface of the land-side, entirely to the bottom, its lower portion b thus constituting a portion or section of the land-side of the plough when completed. In front of this section b a recess is formed on the vertical face of the frame, which extends to the front end or toe of the frame, said recess terminating at its rear end in a V-shaped notch, o', formed in the front edge of the section b, as shown in fig. 1. In rear of this section b, and directly under the bar or strip f, there is left an open space, which extends to the rear end of the frame, there being a flange, a, projecting vertically from the bottom of standard B, and having its outer face set back from the face of the standard a distance equal to half of the thickness of the plate N, which forms the rear portion of the land-side, the space being shown in fig. 1, and the plate N being represented in place in fig. 2. The frame, thus constructed, I cast in a single piece.

I then construct a point, P, of suitable form, with a vertical flange, T, of proper size and shape to fill the recess in front of the section b, the rear end of the flange T terminating in a V-shaped point, o, to fit into the corresponding notch o' formed in the front edge of the section b, as previously described. This point P is secured in place by means of one or more bolts, by which it is attached to the flange C, and also by means of the point o locking into the notch o'. If desired to use a cutter, L, as shown in fig. 2, then the point or share P will be made with a recess in the flange T, as represented in fig. 2, to permit the projection on the lower edge of the cutter to be secured therein.

I also construct a land-side plate, N, of the requisite form and size to fill the space under the bar f, this plate being represented detached in fig. 4, and in place in fig. 2. To secure this plate to the frame its front end is bevelled inward, and there is a lug, l, cast on its inner surface, at that point, so as to form the notch u in the end of the plate N, as shown in fig. 3, which is a top edge view of the plate. Upon the inner face of this plate I form a recess, m, to receive the flange a when in position. The rear edge of the section b is bevelled also, to correspond with the notch u in the front end of the plate N. By first locking the notch u and the rear edge v of the section b together, and then swinging the rear end of the plate in against the flange a, and inserting a screw-bolt, the plate N is held firmly in place, and can be removed at any time, when worn, by taking out a single bolt.

The usual form of mould-board R, made either of cast iron or steel, may be used with the frame and other parts thus constructed; or, if desired, the mould-board and share may be made in a single piece.

Having thus described my invention, what I claim, is—

1. The frame, constructed as shown and described.
2. The share P, having the flange T, arranged to fit in the recess at the front of the frame, and form a section of the land-side, as set forth.
3. The plate N, arranged to fit in the space under the bar f, and in connection therewith form the rear portion of the land-side, as shown and described.
4. I claim forming the land-side of a plough of stationary section b, and the removable sections T and N, when constructed and arranged as described.
5. I claim securing the plate N to the frame by means of the notch u and the flange a, as set forth.
6. Securing the flange T in place by means of the point o fitting into the notch o' on the front edge of the section b, substantially as described;

J. G. DODGE.

Witnesses:

T. P. BARCLAY,  
J. H. RHORER.