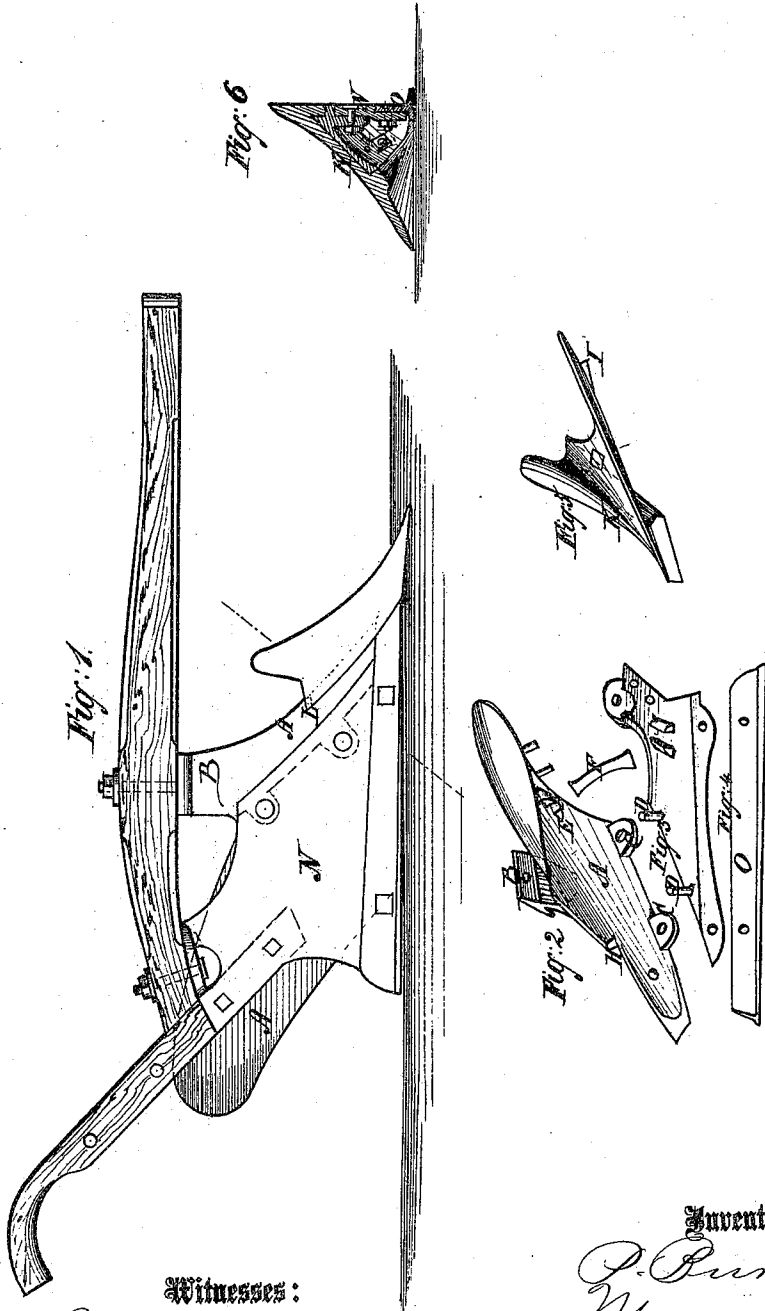


*P. Burns,*

*Plow.*

*No. 97,352.*

*Patented Nov. 30. 1869.*



Witnesses:  
*Matthias*  
*Estate*

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# UNITED STATES PATENT OFFICE.

P. BURNS, OF INDIANA, PENNSYLVANIA.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 97,352, dated November 20, 1869.

*To all whom it may concern:*

Be it known that I, P. BURNS, of Indiana, in the county of Indiana and State of Pennsylvania, have invented a new and useful Improvement in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to improvements in cast-iron or steel plows; and it consists in forming the mold-board, landside, and point or spreader in separate parts, and joining them together by bolts; also, in dovetailing the point or spreader to the mold-board in a manner to sustain the shocks caused by the points striking large stones and other obstructions, in a way to relieve the bolts, by which the point is connected to the mold-board, of the strain of such shocks. The object of forming the plows in the several parts, as stated, is to make the work of molding more simple and easy than when cast together.

Figure 1 represents a side elevation of a plow constructed according to my improvement. Fig. 2 is a view of the mold-board, looking toward the bottom. Fig. 3 is a plan of the inside of the landside. Fig. 4 is a side elevation of the shoe. Fig. 5 is a side elevation of the point, and Fig. 6 is a transverse section taken near the junction of the point with the landside.

Similar letters of reference indicate corresponding parts.

The mold-board A is cast with the post or brace B for connection to the beam, and the lugs C for the connection of the landside by bolts D, which pass through them and are screwed up by nuts. The said mold-board is also provided with the lugs E, forming a dovetail-shaped recess for the reception of a stay-

bar or brace, F, connecting in like manner with the mold-board by the lugs G.

H is a notch in the lower edge of the mold-board for the reception of a projection, I, at the inside and near the lower edge of the point K. This projection takes into the notch in such a way as to lock the two parts to prevent lateral play of one on the other. The mold-board has a V-groove formed in it at L, for the reception of a corresponding shaped edge on the point to hold the same more firmly against the force of shocks occasioned by striking against large rocks than can be done by the square shoulders usually formed in this place for square edges on the points, for in this latter case, when great shocks occur, the square shoulders will not prevent the tendency of the points to rise off from the mold-boards, whereby very much greater strain is delivered on the holding-bolt than in my arrangement.

In this example I have represented a wide landside, N, rising near to the beam and provided with a shoe, O; but I propose to make plows in the same way, with the narrow landside, and with the shoes made a part thereof, as they can be as readily cast that way.

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

The construction of the mold-boards, landsides and points or shoulders of cast-metal plows in three separate sections, as herein described, for connecting together by bolts and nuts, when the mold-board is provided with the notch H and V-groove L, and the point or spreader with the projections fitting therein, all substantially as specified.

P. BURNS.

Witnesses:

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