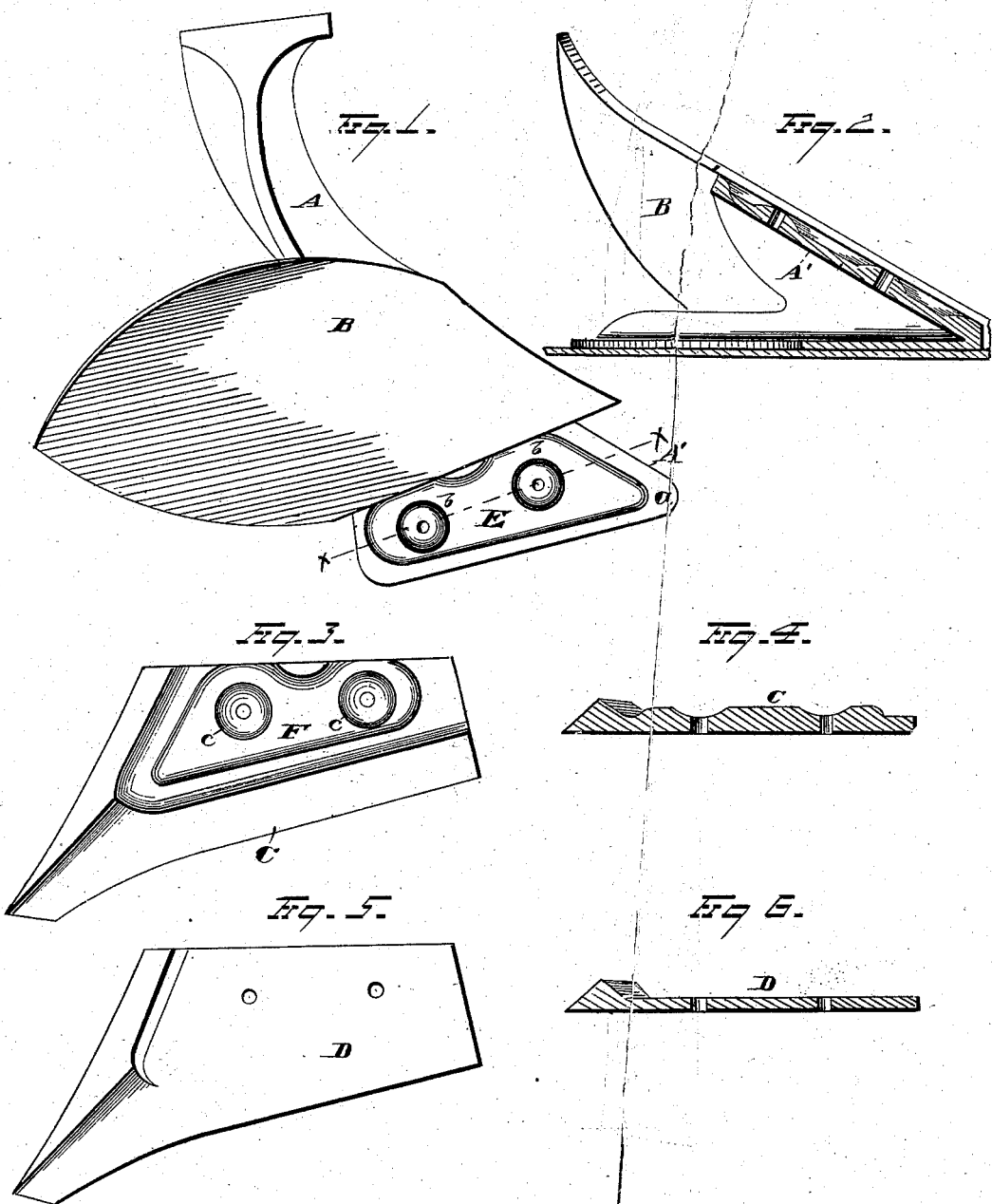


N. P. BOWSHER.  
Plow.

No. 205,236.

Patented June 25, 1878.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

NELSON P. BOWSHER, OF SOUTH BEND, INDIANA.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 205,236, dated June 25, 1878; application filed November 16, 1877.

*To all whom it may concern:*

Be it known that I, NELSON P. BOWSHER, of South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to plows; and consists of a construction and adaptation of parts which are hereinafter described and claimed, the standard-foot of the plow being adapted to support either a cast-iron or a steel point, which latter is secured thereto in a different manner of engagement.

In the drawings, Figure 1 is a view of a plow embodying my invention with the plow-point removed. Fig. 2 is a section taken through the line *xx* of Fig. 1. Fig. 3 is a rear view of the plow-point as constructed of iron; Fig. 4, a longitudinal section of the device shown in Fig. 3. Fig. 5 is a rear view of the plow-point as made from steel; Fig. 6, a longitudinal section of the device shown in Fig. 5.

A is the plow-standard; B, the mold-board; and C and D, respectively, the iron and steel plow-points. The points C and D are, respectively, made of a separate piece of metal fitted and jointed accurately at its union with the mold-board B. These points, respectively, rest upon and are attached to the standard-foot A', which, with the standard A, is a single casting. Instead of presenting a flat or continuous even surface, the face of the standard-foot A' is excavated at all portions, excepting its rim or edges and a space round about the holes through which bolts pass to fasten on the said respective points. The reason for this peculiar conformation of the face of the standard-foot will hereinafter more fully appear.

The recess E, formed in the bearing-face of the standard-foot, extending, as described, over the entire surface thereof, excepting the edges *a*, gives a large bearing area for the corresponding projection F, formed on the inner face of the iron point C, while the raised projections *b* about the two bolt-holes formed within the said recess E of the standard-foot provide locking engagements for the annular recesses *c*, formed upon the projection F of

the iron point, the same being thus adapted to firmly interlock and secure the point to the plow.

Considering the iron point (Figs. 3 and 4) it will be seen that its inner surface, that portion resting against the standard-foot, is made counterpart to said standard-foot, so that when resting against each other the iron point and standard-foot shall touch at all points.

Considering the steel point (Figs. 5 and 6) it will be seen that its inner face, which rests against the standard-foot, is made plain without the inequalities and counterpart peculiarity of the iron point. The steel point rests only upon the raised portions of the standard-foot, and these raised portions should be sufficient to afford the required support and resistance to the steel point, and they should be so dressed as that the steel point shall rest firmly and securely in position.

What I claim is—

1. The combination, with the standard-foot, formed with a recessed bearing-face, having raised projections about its bolt-holes within said recessed face, of the plow-point, whose inner surface is made with a projection the counterpart of the recessed face of the standard-foot, and which is also formed with recesses about its bolt-holes corresponding to the raised projections on the standard-foot, the whole being adapted to interlock and bring the standard-foot and plow-point into contact with each other at all points, substantially as set forth.

2. The combination, with the standard-foot A', made with the recess E extending over its entire bearing-surface except at the edges thereof, and having the annular projections *b* formed about the bolt-holes thereon, of the plow-point C, whose inner surface is made with the projection F, having the annular recesses *c* formed about its bolt-holes, said projection F and recesses *c* being adapted to interlock with the counterpart recess E and projections *b*, formed on the standard-foot, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NELSON P. BOWSHER.

Witnesses:

L. PINE,  
GEO. W. MATTHEWS.