

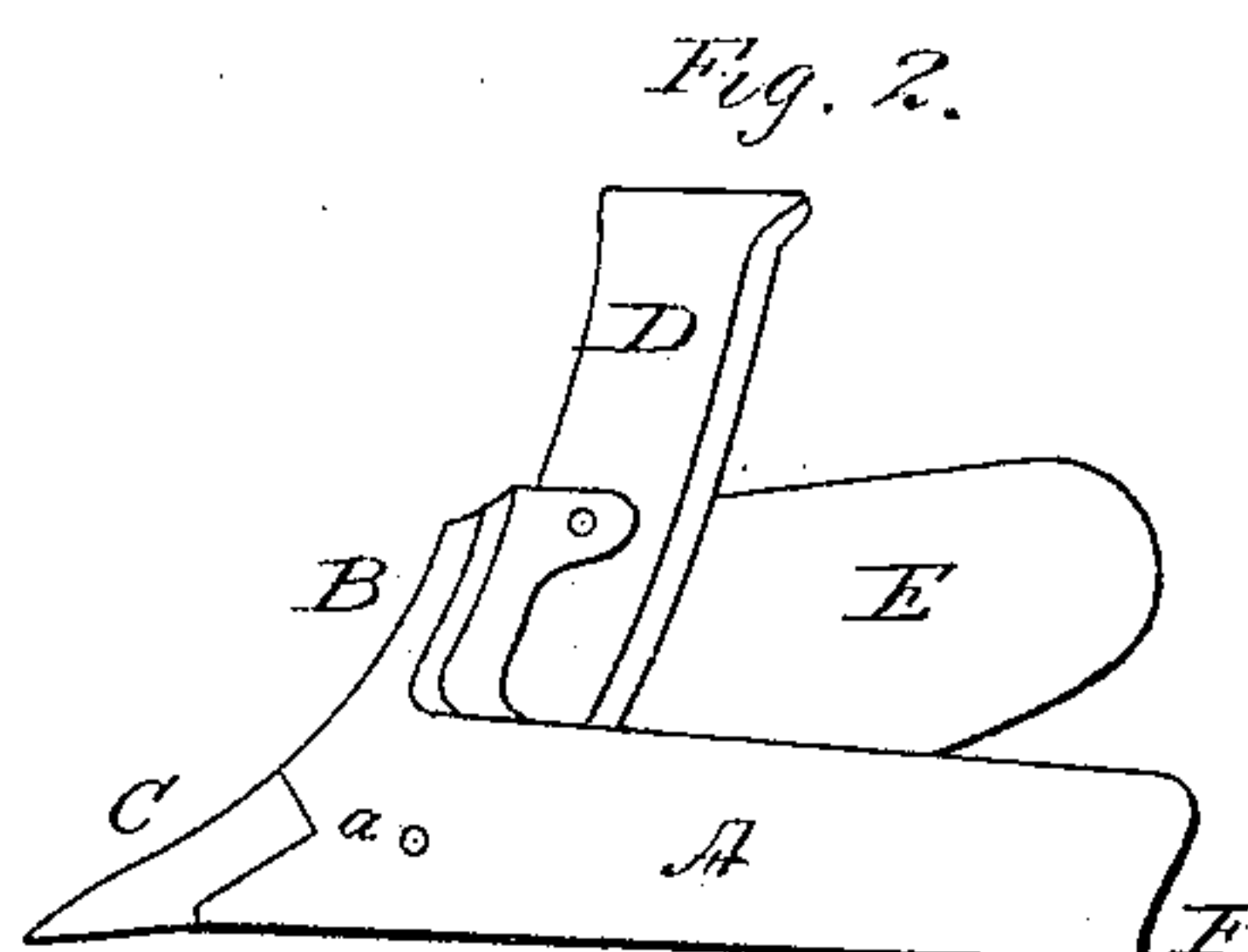
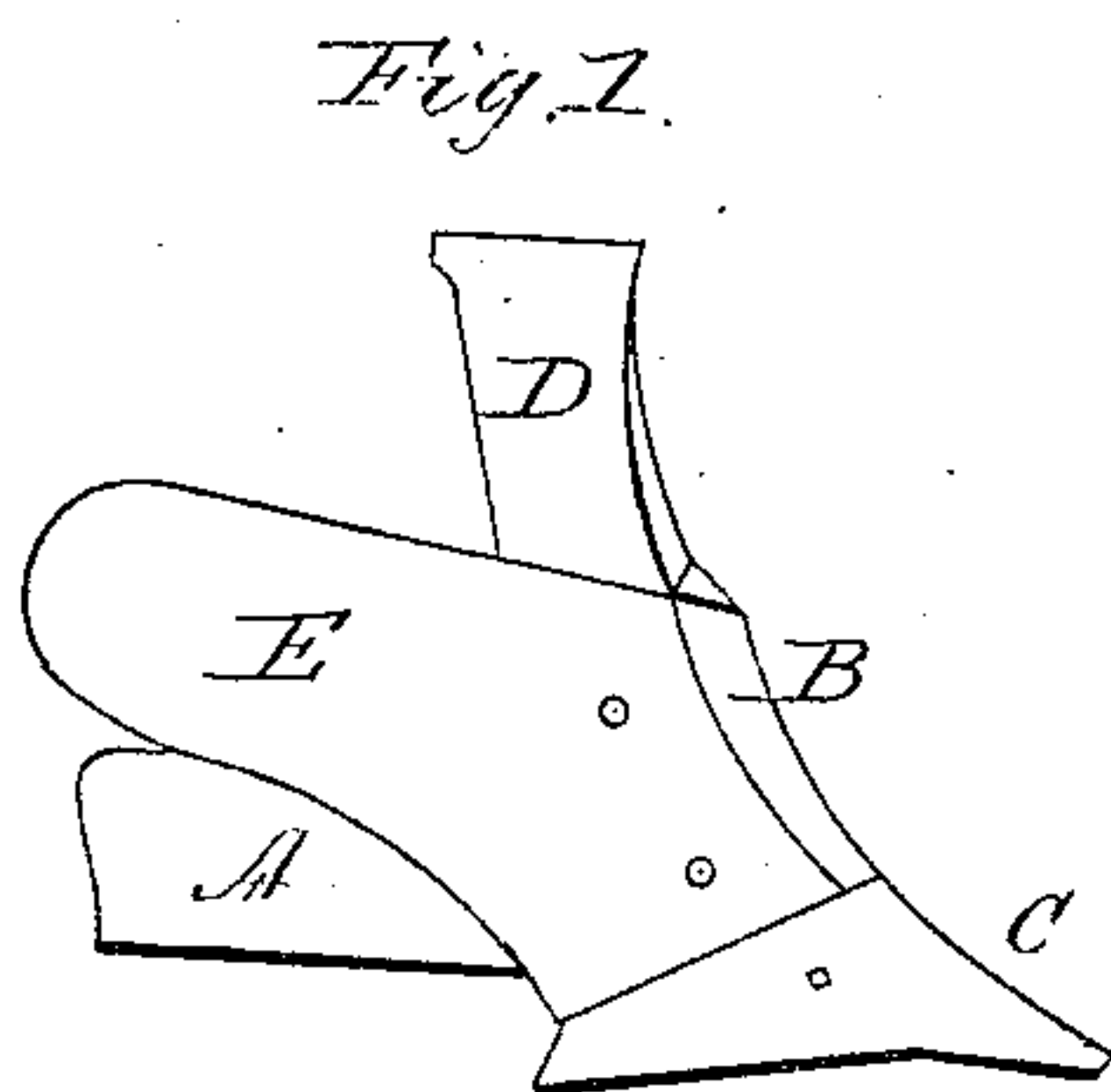
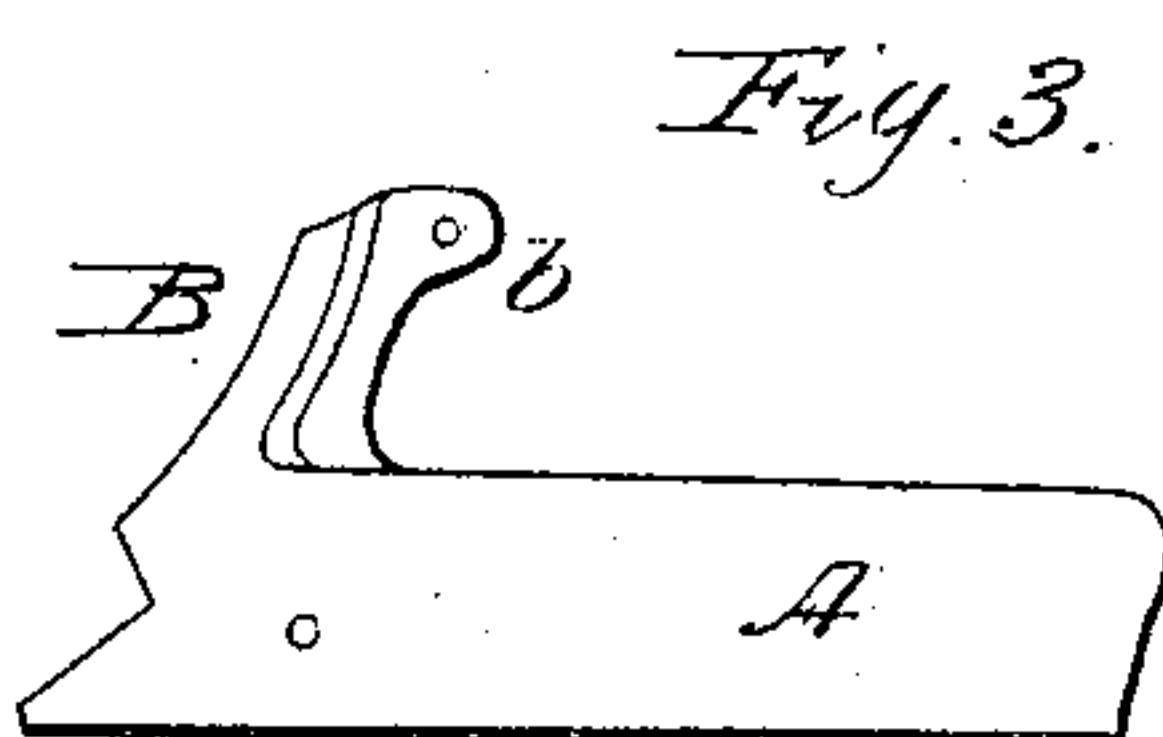
(Model.)

N. SANDERS.

PLOW.

No. 252,972.

Patented Jan. 31, 1882.



*Witnesses.*

*George E. Downing  
Judson Buchanan*

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# UNITED STATES PATENT OFFICE.

NEWELL SANDERS, OF CHATTANOOGA, TENNESSEE.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 252,972, dated January 31, 1882.

Application filed October 6, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, NEWELL SANDERS, of Chattanooga, in the county of Hamilton and State of Tennessee, have invented a new and useful Improvement in Turning-Plows, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of my invention is to combine the cutter and landside of a turning-plow in one piece in such a way as to have the cutter well supported without combining it with the share or mold-board or making an additional part in the construction of the plow, at the same time having the two sides of the cutter in the same general lines with the landside and mold-board sides of the plow, all of which is shown in the accompanying drawings.

Figure 1 is a general view of a mold-board side of a plow; Fig. 2, of the landside side of a plow; and Fig. 3 is a view of the landside with cutter attached.

A is the landside. B is the cutter. C is the share. D is the standard, and E is the mold-board.

My invention relates particularly to that class of plows the faces of whose cutters correspond to the general curvature of the mold-board and surface of the landside.

Now, it is found in practice that the heel of the landside is a vital point in a plow and in time wears off, so that a new landside has to be obtained. It is further found that the cut-

ter will last about the same length of time as the heel of the landside. My cutter and landside being cast in one piece therefore is a great improvement. The cutter adds very little extra cost to the landside and has to be renewed only when the landside requires renewal. It is also stronger and better attached than any other, resting, as it does, on the front edge of and being bolted at top and bottom securely to the standard. The strain on the cutter which is in line with the landside is conveyed to that part. It leaves the share, which needs renewing oftener than any other part, in one piece, entirely separate from any other part. It leaves no difficulty in the way of making and using steel shares.

What I claim is—

1. The landside A, having the forward notch, *a*, and the upward extension, B, the latter having a sharp cutting-edge, and curved to be flush with the mold-board and share, and provided with the ear *b*, substantially as shown and described.

2. The landside A and colter-extension B, as described, formed in one piece, in combination with the mold-board E, share C, and standard D, substantially as shown and described.

NEWELL SANDERS.

Witnesses:

H. D. GHALT,  
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