(No Model.)

T. C. BELDING.

PLOW.

No. 301,428. Patented July 1, 1884.

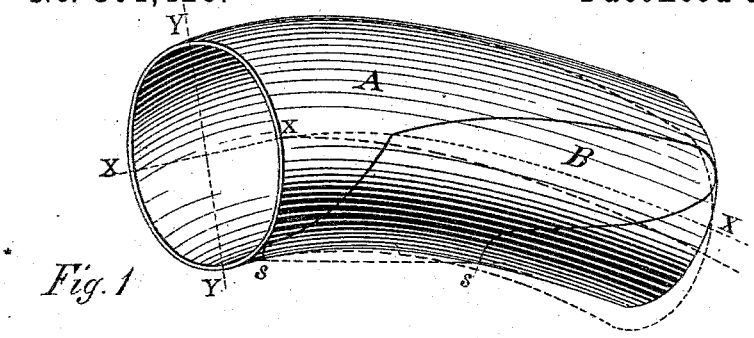

Fig. 1

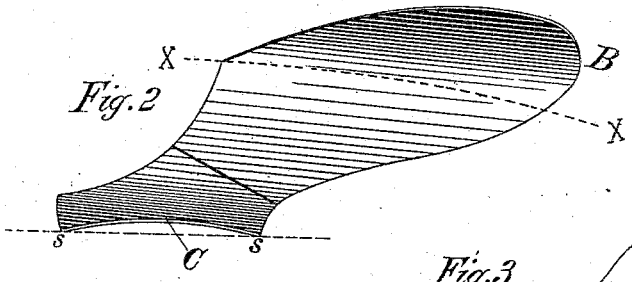

Fig. 2

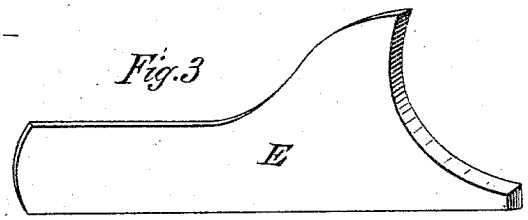

Fig. 3

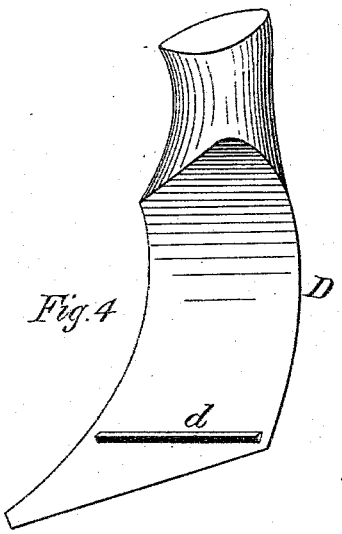

Fig. 4

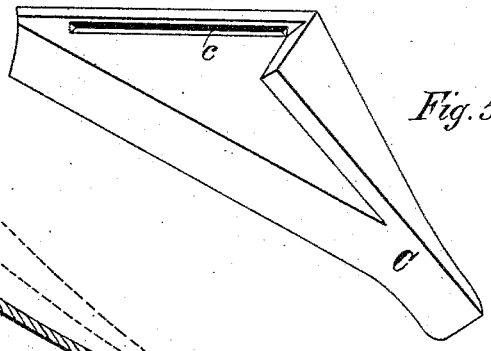

Fig. 5

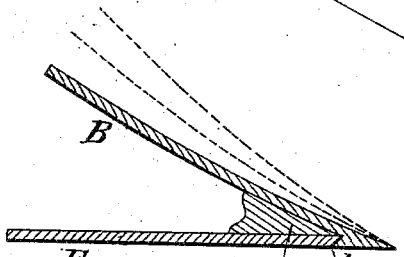

Fig. 6

R. C. Fawcett.
L. L. Bonbrake
Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS C. BELDING, OF WAYNESBURG, ASSIGNOR OF ONE-HALF TO THOMAS C. SNYDER, OF CANTON, OHIO.

PLOW.

SPECIFICATION forming part of Letters Patent No. 301,428, dated July 1, 1884.

Application filed August 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS C. BELDING, a citizen of the United States, residing at Waynesburg, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a perspective view of a segment of a hollow cylinder. Fig. 2 is a side elevation of mold-board and share. Fig. 3 is a side view of landside. Fig. 4 is a side view of standard or post. Fig. 5 is an under side view of share showing it detached. Fig. 6 is a longitudinal section of mold-board and landside and transverse section of standard or post.

The present invention relates to the construction of the mold-board and share of plows; and it consists in the construction and combination of said parts, as will be hereinafter particularly described.

Similar letters of reference indicate corresponding parts in the drawings.

In the accompanying drawings, A represents the former, curved in both cross and longitudinal section, and delineating a segment of a ring, round in cross-section, from which the mold-board B and share C are formed, either by cutting patterns from said former, if it be hollow, or pressing said parts over the same to give them the desired form, whether it be hollow or not. Said parts are taken from the former A, as indicated in Fig. 1, the line S S forming the base or lower extremities of the share C.

The line X X X represents the point where the mold-board changes the direction of its curve or its vertex, and, as shown, is at right angles to the line Y Y. The degree of curvature to the mold-board B and share C being regulated by the diameter of the circle of which A is a segment, as indicated by the dotted lines, (see Fig. 1,) the size of the mold-board and share is regulated by the diameter of the former.

The object of using the segment-curved former A is to give to the mold-board B the lateral curvature which is attained by this means, and at the same time form a share to correspond with the mold-board in its general outlines, this peculiarity of shape causing the mold-board to follow the furrow-slice more closely after it has been so far turned that its own weight will assist in reaching its resting-place. The mold-board B is provided with a beveled-edge extension, *b*, upon the landside of the same, said beveled portion extending back of the forward point of the standard or post D, thereby forming a recess to receive the forward end of the landside E, said landside being beveled to correspond with the recess formed by the beveled portion *b*, said parts being firmly held to the standard or post D by suitable clamping-bolts. It will be seen that by forming a joint, as described, the dirt will pass the same more readily than a joint at right angle to the standard or post D. The share C is formed from the former A, thereby causing the curvature of said share to correspond with the curvature of the mold-board B. Upon the rear end or portion of this share is formed the recess *c*, which corresponds with the projection *d* on the standard or post D, said recess and projection being for the purpose of easy adjustment of said share, and at the same time assisting in holding said share in proper position. This share is firmly held to the standard or post D by clamping-bolts. The standard or post D is of the form shown in Fig. 4, to the top of which is attached the plow-beam.

In order to clearly and fully describe the manner of forming the mold-board and share, I have illustrated and referred to the "former" used for such purpose; but I do not claim in this application for patent the construction of such former.

I am aware that it is not new to form the working-surface of the mold-board in the form of a section of the interior surface of a hollow cylinder, the center or axis of said cylinder being parallel or nearly parallel horizontally to the base of the mold-board.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A mold-board having the form, sub-

stantially as described, of a section of an annular tube forming arcs of circles on its vertical and longitudinal face, substantially as described.

2. A plowshare having the form, substantially as described, of a section of an annular tube forming arcs of circles in two directions, substantially as described.

3. In a plow, the combination of the standard D, the share C, and the mold-board B, having the form of a section of an annular tube describing arcs of circles in two directions, substantially as described, and means for locking the parts together, as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THOMAS C. BELDING.

Witnesses:
R. C. FAWCETT,
L. S. BONBRAKE.