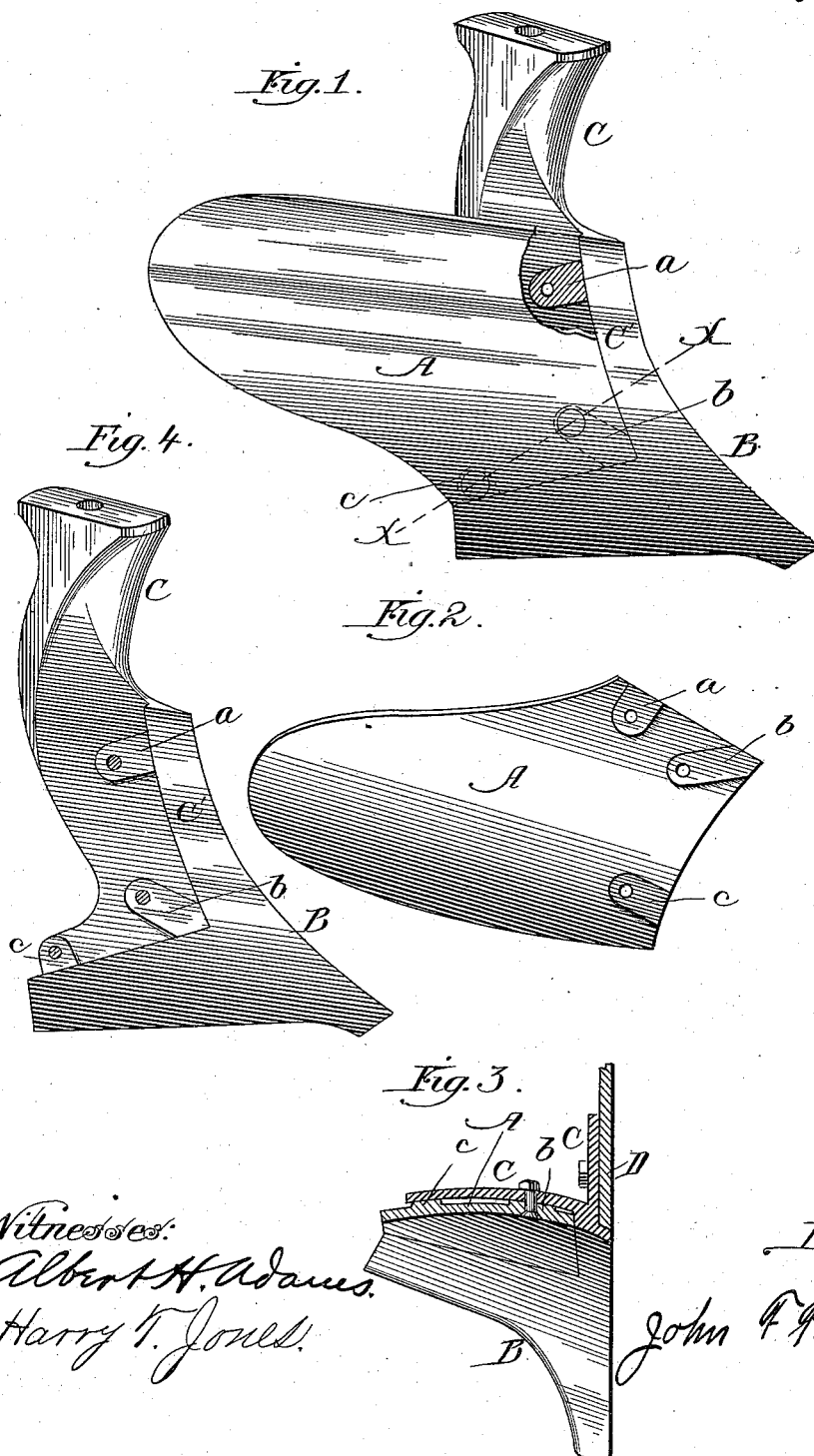


(No Model.)

J. F. PACKER.  
ATTACHING MOLD BOARDS.

No. 382,185.

Patented May 1, 1888.



Witnesses:  
Albert H. Adams.  
Harry T. Jones.

Inventor:  
John F. Packer.

# UNITED STATES PATENT OFFICE.

JOHN F. PACKER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE DAVID  
BRADLEY MANUFACTURING COMPANY, OF SAME PLACE.

## ATTACHING MOLD-BOARDS.

SPECIFICATION forming part of Letters Patent No. 382,185, dated May 1, 1889.

Application filed August 20, 1887. Serial No. 247,480. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN F. PACKER, residing at Chicago, in the county of Cook and State of Illinois, and a citizen of the United States, have invented a new and useful Improvement in Attaching Mold-Boards, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view with the parts in place and the mold-board broken out to show one of the supporting-bosses in section; Fig. 2, a rear face view of the mold-board, showing the supporting-bosses applied thereto; Fig. 3, a section on line *xx* of Fig. 1; Fig. 4, a perspective view of the standard, showing the supporting-bosses applied thereto.

Mold-boards made of steel or chilled iron are liable to warp or twist out of their line of curvature in cooling, and this warping out of shape, although it does not injure or affect the working of the plow, is found very objectionable in that it does not accurately fit the standard to which it is to be attached, the result being that in drawing the mold-board into place by the bolts the strain at one point will be sufficient to crack or break the mold-board, requiring great care in making the attachment.

The object of this invention is to overcome this objection in steel or chilled-iron mold-boards; and its nature consists in providing three bosses or lugs located to give three points of support in triangular form and at the points where the fastening-bolts are located, and these supporting lugs or bosses can be either on the under face of the mold-board or on the upper face of the standard or support, as may be desired.

In the drawings, A represents the mold-board, made of steel or chilled iron, in any usual or well-known form of curvature.

B is the point, also made of steel or chilled iron, of any usual or well-known form of construction adapted for use with the form of mold-board.

C is the standard, projecting above the plow, as usual, for attachment to the beam and having a lower portion curved and formed to correspond to and receive the mold-board and point, as usual, and, as shown, the front edge of the standard is formed with a flange or ridge, C', of a thickness and curvature to correspond with the flanges and curvature of the mold-board, and against which the edge of the mold-board abuts and fits.

D is the landside, of the usual construction.

As shown in Figs. 1 and 2, the under face of the mold-board has formed thereon three lugs, *a b c*, which lugs are located at the points on the mold-boards through which the attaching-bolts pass, and these lugs or bosses are located in a triangular relation to each other, so that an uneven bearing cannot be had, as a contact with one must be with all, as with any support having three bearing-points only. As shown in Fig. 4, the lugs or bosses forming the three bearings are located on the standard, instead of on the under face of the mold-board, but in the same relation and operating in the same manner as with the bearings on the mold-board. These bosses do not interfere in any manner with the operation of the plow; but by their use a three-point bearing is formed, by which no undue strain or pressure can occur at any one point that will crack or break the mold-board when brought down to place by the bolts.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the mold-board and its standard, of three bosses made integral with one of said parts and arranged in triangular relation to each other to form three bearing-points between the mold-board and the standard, substantially as shown and described, and for the purpose specified.

JOHN F. PACKER.

Witnesses:

ALBERT H. ADAMS,  
HARRY T. JONES.