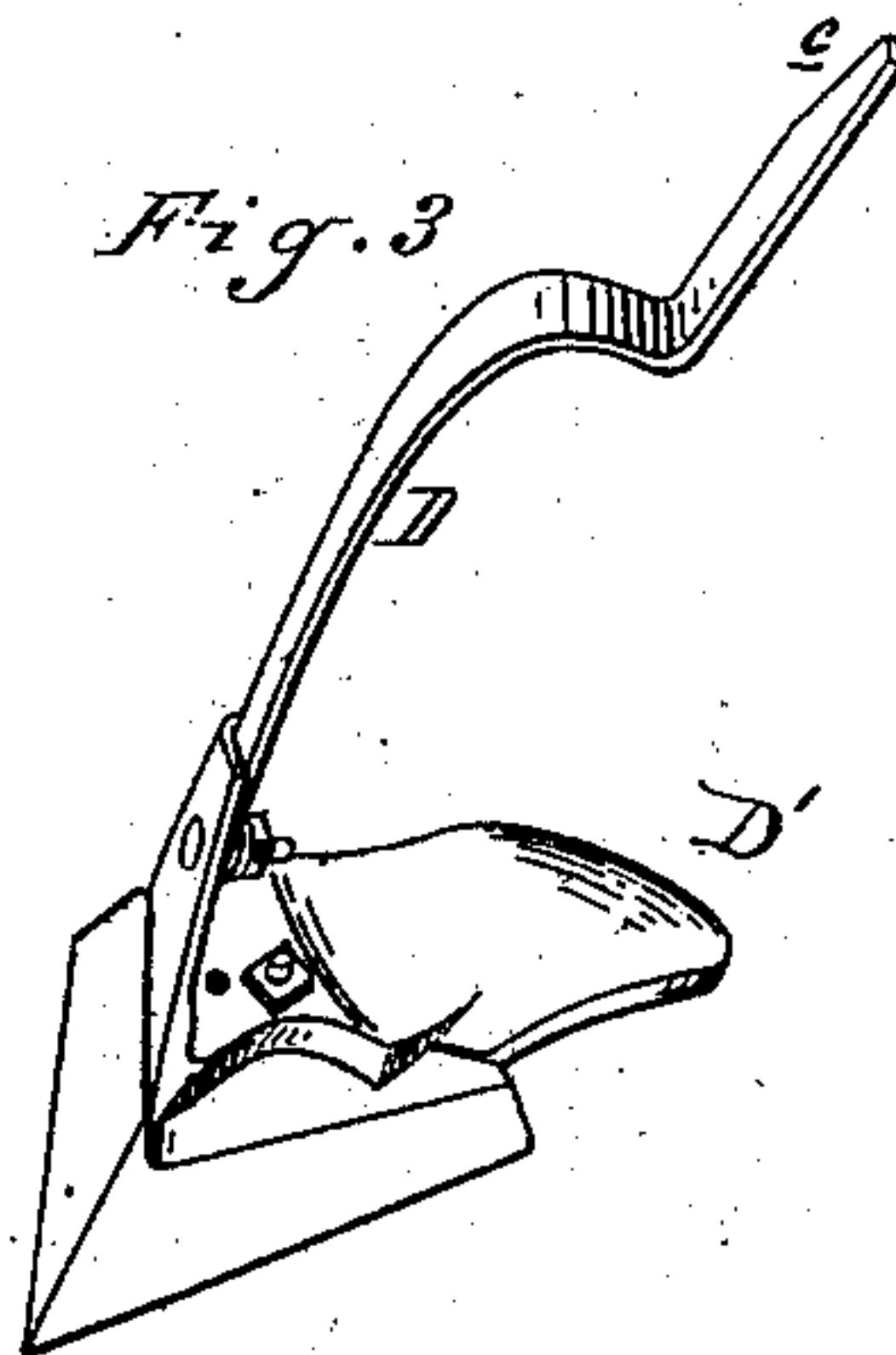
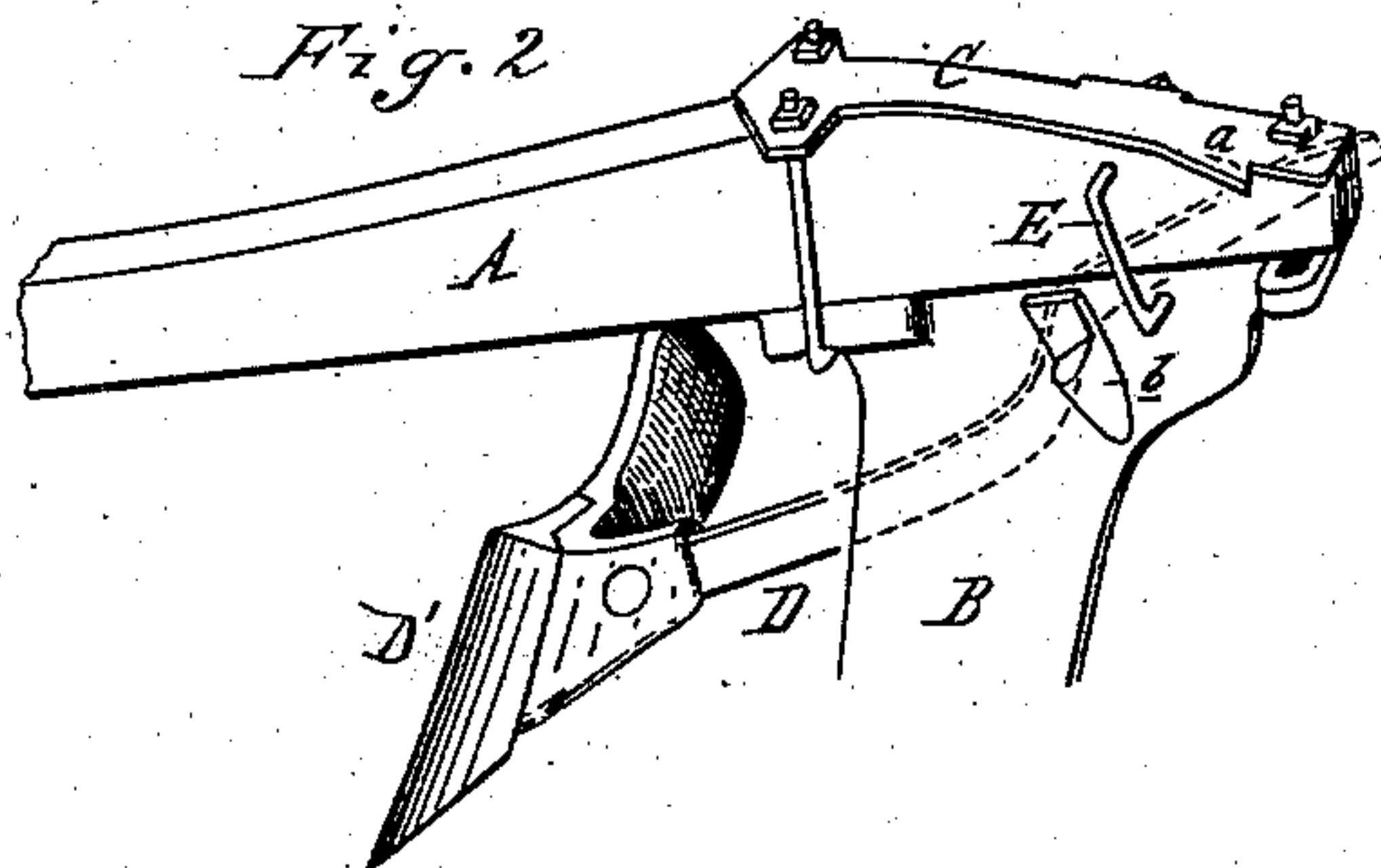
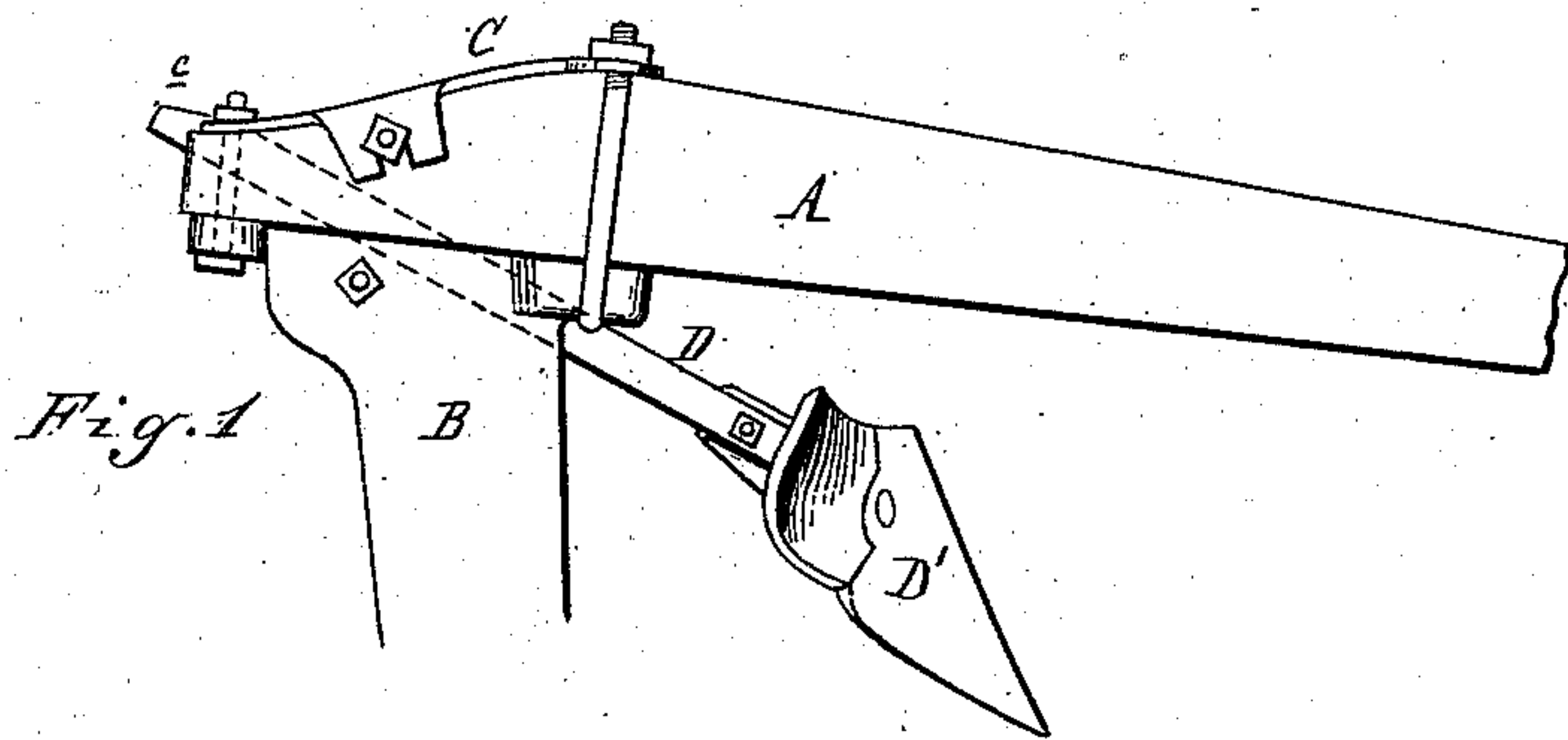


A. L. CHUBB.  
Plow.

No. 225,342.

Patented Mar. 9, 1880.



Attest:  
A. Barthel  
E. P. Sprague

Inventor:  
A. L. Chubb  
By Atty  
E. P. Sprague

# UNITED STATES PATENT OFFICE.

ARCHIBALD L. CHUBB, OF GRAND RAPIDS, MICHIGAN.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 225,342, dated March 9, 1880.

Application filed August 30, 1879.

*To all whom it may concern:*

Be it known that I, ARCHIBALD L. CHUBB, of Grand Rapids, in the county of Kent and State of Michigan, have invented an Improvement in Plows, of which the following is a specification.

The nature of this invention relates to new and useful improvements in the method of attaching jointers to plows; and it consists in the peculiar devices for adjustably securing the jointer-arm, as fully hereinafter explained.

Figure 1 is a side elevation. Fig. 2 is a sectional perspective view of that portion of the plow beam and standard where my jointer-arm is secured. Fig. 3 is a detached view of jointer and arm.

In the accompanying drawings, which form a part of this specification, and wherein my jointer and arm are shown as attached to a wooden-beam plow, A represents the beam, adjustably secured to the standard B in any of the known ways of securing such adjustment. A plate, C, upon the top of the beam, is provided with a recess or notch, *a*, in the projection of said plate, and *b* is a bearing-lug cast upon the land-side side of the standard.

D is a curved arm with its upper end beveled off at *c*, and this arm rests with its upper edge against the front of the recess or notch, and with its lower edge upon the lug, projecting forward and downward or in an oblique direction, and is secured in its position by the clamp E and nuts upon the ends thereof, which project one through the beam and the other through the standard.

By loosening the nuts of the clamp or gripe the arm with its jointer D' may be projected obliquely downward and forward, as may be desired, and the jointer will be found to preserve its relative position in alignment with the plow-point, and the pitch of the two will correspond.

It will be noticed that the upper edge of the upper end of the arm is beveled off at *c*. This is done for the purpose of allowing the pitch of the jointer to be made more abrupt, if de-

sired, by allowing a radial movement of said arm.

By this construction and method of attachment the jointer may be projected nearly or quite to a line over the plow-point, or retracted to any point in rear thereof that may be desired, always keeping its point in alignment with the plow-point. The depth of the cut of the jointer is also regulated by this movement, and the pitch of the jointer may be varied as occasion demands. It will be noticed, also, that the jointer-arm is not fastened to the standard, but rests against it on the lug on its side for support, and as the fulcrum or center of the radial movement, while the upper end of the arm is supported by and rests against the recess or notch in the top plate.

The beam may be adjusted as for three horses without necessarily changing the jointer.

The plate C is preferably made with ears, or a flange turned down on the mold-board side of the beam, and through this the end of the clamp passes, the flange acting as a washer to prevent the holding-nut from wearing away the beam by abrasion.

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

1. The combination, with the beam-carrying plate C, provided with notch *a*, and the standard having the lug *b*, of the jointer-arm D, supported between the said notch and lug, and the clamp E, for adjustably securing such jointer-arm in position, substantially as described and shown.

2. In combination with a plow beam and standard, the curved arm D, beveled, as described, carrying the jointer and secured to the side of the beam and standard and in engagement with the recess and lug by the gripe E, substantially as and for the purposes specified.

ARCHIBALD L. CHUBB.

Witnesses:

HENRY KNIGHT,  
D. B. SUMNER.