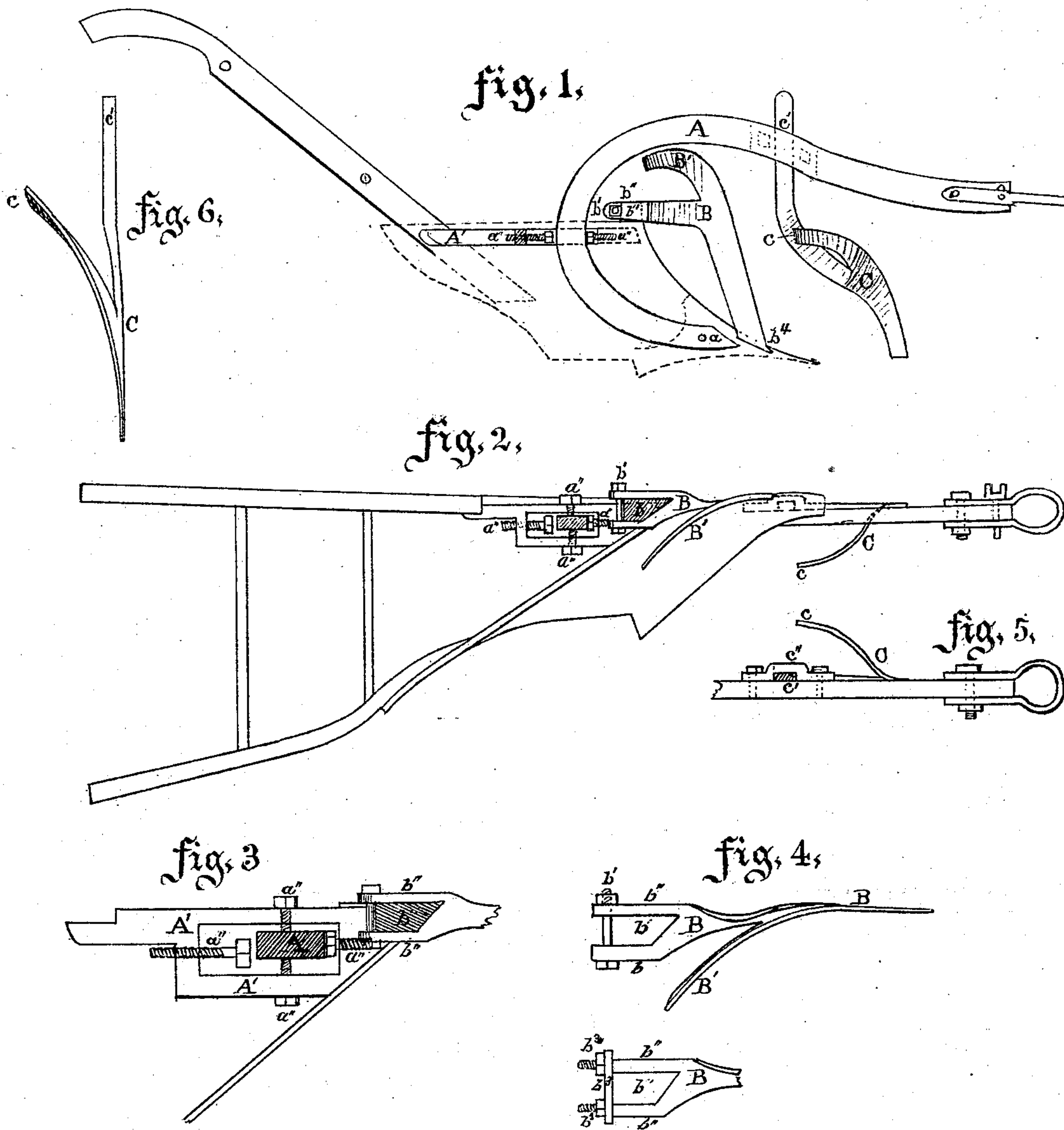


J. PINKHAM.

Plow Coulter.

No. 111,244.

Patented Jan. 24, 1871.



Witnesses

Thomas Le Gernoy

W. R. Singleton

Inventor

Joseph Pinkham

# UNITED STATES PATENT OFFICE.

JOSEPH PINKHAM, OF NEW MARKET, NEW HAMPSHIRE.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **111,244**, dated January 24, 1871.

*To all whom it may concern:*

Be it known that I, JOSEPH PINKHAM, of New Market, county of Rockingham, and State of New Hampshire, 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, and to the letters of reference marked thereon, making part of this specification, in which—

Figure 1 is a side view of the plow, partly in section. Fig. 2 is a top view, partly in section. Fig. 3 is a plan view of details. Fig. 4, views in detail of the colter; Fig. 5, part of the stock or beam; Fig. 6, elevation of a colter.

My invention relates, first, to the manner of pivoting the beam in the lower part of the share, and the arrangement for the proper adjustment of it, both for the vertical and the lateral movements; secondly, to the method of fastening the colter to the front edge of the share.

In the drawings, A is the beam or stock, which is pivoted to the share at *a*.

A' is the adjusting-frame through which the beam passes, and in the sides of which are screw-threaded holes for the screw-bolts *a'' a'' a'' a''* to work in.

B is a colter, which has a yoke, *b''*, made to fit snugly the projecting part of the share at *b*, being clamped by a through-bolt, *b'*, or by a clamp-bar and nuts, *b<sup>3</sup>*, as shown in the modification of Fig. 4.

B' is the mold of B for turning the stubble or grass or weeds, as the case may require.

C is a colter depending from the beam A at an advanced position, and is fixed in a cleat upon the side of the beam, or it may be set in a mortise in the body of the beam and fastened by a set-screw or any other suitable device. This colter may have either a left or right turn mold, as shown in Figs. 2 and 5 at C *c* C *c*.

*a* is the pivot by which the beam is fastened to the share.

*a'' a'' a'' a''* are four set-screws for adjusting the beam to give it the proper depth in the ground when in use.

*b* is the projecting part of the share, to which the colter B is fastened by the yoke *b''* by means of the screw-bolt *b'* or nuts and bar *b<sup>3</sup>*.

*b<sup>4</sup>* is the lower end of the colter B, and is inserted into a mortise in the share, and by a projecting lip, as at *b<sup>4</sup>*, the foot is inserted before the upper end is made fast at *b*. This mode of construction securely braces the colter, and yet admits of the ready removal of it, and the breadth of the bearing at the yoke keeps the colter very securely in its exact position.

*c* is the mold-piece of the additional colter. *c'* is the shank by which it is to be attached to the beam, either in a cleat, *c''*, or in a mortise in the beam itself.

The explanation of the letters will readily show the peculiar construction of the several parts of the improvements claimed, and which may be adapted to any form of plowshare.

The advantages of these improvements are manifest. The beam admits of the very nicest adjustment vertically as well as laterally, and may readily be adapted to any soil, and the laterally-adjusting screws will afford equal facilities to regulate the action of the plow to or from the landside.

The method of fastening the colter over the share-point admits of easy and rapid removal. The forward colter can be used separately or in connection with the other.

Having described my invention, what I claim as new therein, and desire to secure by Letters Patent of the United States, is—

1. The frame A', with adjusting-screws *a'' a'' a'' a''*, combined with the beam A, pivoted at *a*, substantially as and for the purpose described.

2. The colter B, with its projecting lip *b<sup>4</sup>*, inserted into the slot or mortise in the point of the share, and the yoke *b''*, fastened to the standard of the plow, either by the bolt *b'* or the bolts and bar *b<sup>3</sup>*, substantially as and for the purpose described.

JOSEPH PINKHAM.

Witnesses:

THOMAS C. CONNOLLY,  
WM. R. SINGLETON.