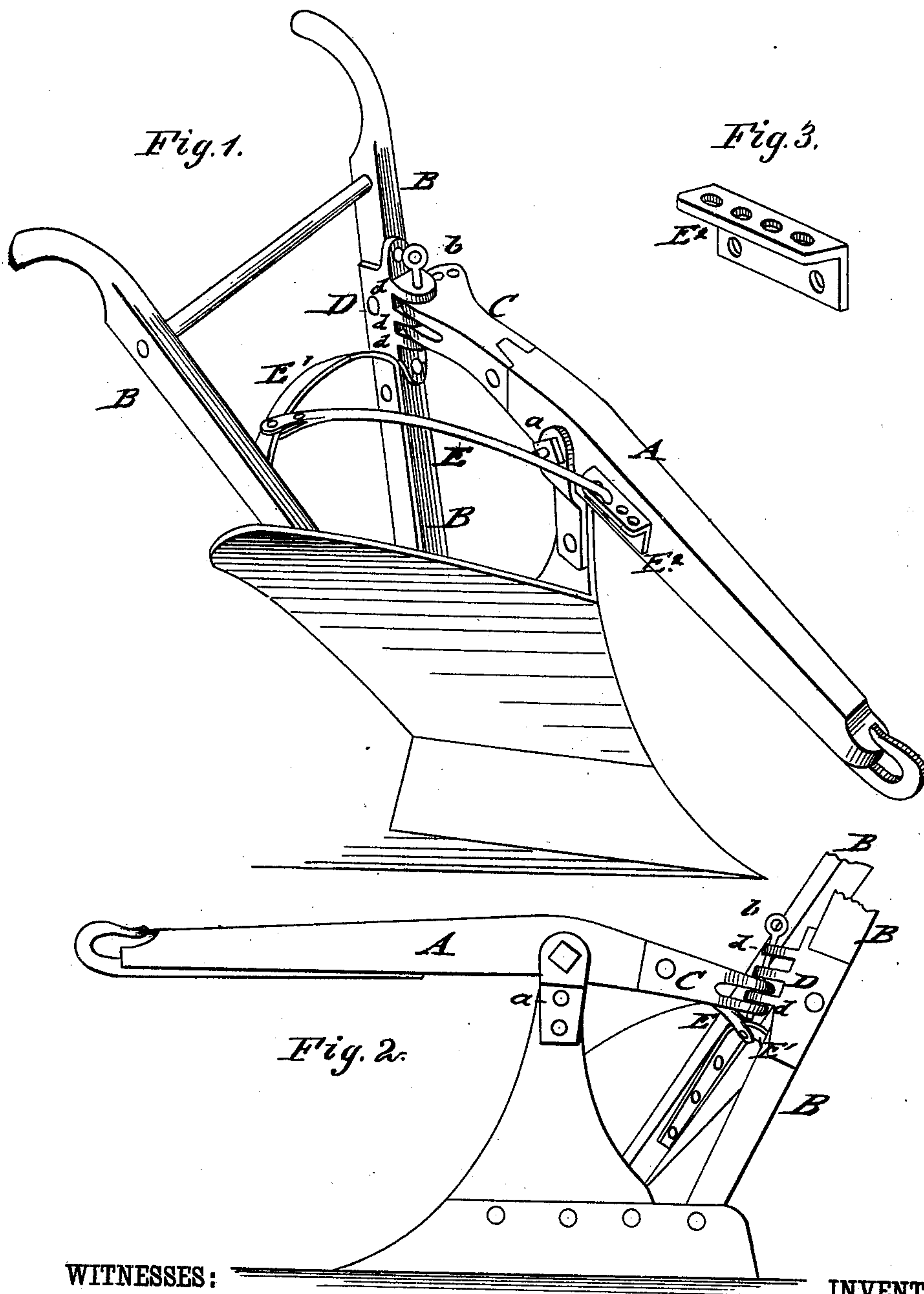


J. KINSTLER.  
Plow.

No. 214,924.

Patented April 29, 1879.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

JACOB KINSTLER, OF THOMAS HILL, MISSOURI.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **214,924**, dated April 29, 1879; application filed August 16, 1878.

*To all whom it may concern:*

Be it known that I, JACOB KINSTLER, of Thomas Hill, in the county of Randolph and State of Missouri, have invented a new and Improved Plow, of which the following is a specification.

In the accompanying drawings, Figure 1 represents a perspective view of my improved plow; Fig. 2, a side elevation of the same, and Fig. 3 a detail perspective view of the perforated side plate of the beam.

Similar letters of reference indicate corresponding parts.

This invention relates to such improvements in plows that they may be set so as to run deep or shallow, or take more or less land, as desired; and the invention consists of a plow-beam that is pivoted to the plow-stock, and provided with a flanged and perforated rear-end casting, that is coupled higher or lower to, or to the right or left of, a flanged casting secured to the handle next to the beam, the handles and beam being rigidly locked by a hooked brace rod or arm pivoted to a transverse brace of the handles and hooked to a perforated plate of the beam.

Referring to the drawings, A represents the beam, and B the handles, of my improved plow. The beam is pivoted to and supported in pivot-bearings *a* of the plow-stock, so as to swing thereon and be adjusted by a flanged and perforated rear casting, C, higher or lower on a flanged casting, D, of the handle B, next to the beam.

A coupling-pin, *b*, secures the beam to the casting D, which has preferably three horizontal perforated flanges, *d*, through which and the holes of the end flanges of the casting C the pin *b* passes. The flanges of the rear casting, C, of the beam are made wider than the flanges of the handle-casting, and arranged

with a number of holes, which admit the moving in or out of the beam, so as to give the plow more or less land.

By raising or lowering the rear end of the beam and securing it into higher or lower position on the flanges of the handle-casting D, the plow is made to go deeper or less deep into the ground.

The rigid position of the beam and handles is obtained, after the adjustment of the beam as to the land and depth, by a hook arm or brace, E, that is pivoted to a transverse brace, E<sup>1</sup>, of the handles, and locked into a flanged and perforated side plate, E<sup>2</sup>, of the beam in front of the stock.

The hook-arm E secures the rigid position of the different parts of the plow after adjustment, and prevents the shaking and getting loose of the parts.

The beam is perforated for the pivot of the plow-stock, so as to have also some side play, and admit thereby the lateral adjustment without straining the beam. The rear adjustment takes the place of the plow-clevis in front, and furnishes a more reliable and positive mode of adjustment of the plow as to the land and depth.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with the pivoted beam A, of the flanged plate C, secured to the inner end thereof, the flanged plate D *d*, secured to the plow-handle, the perforated plate E<sup>2</sup>, and the diagonal brace E, substantially as and for the purpose specified.

JACOB KINSTLER.

Witnesses:

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WILLIAM T. THOMAS.