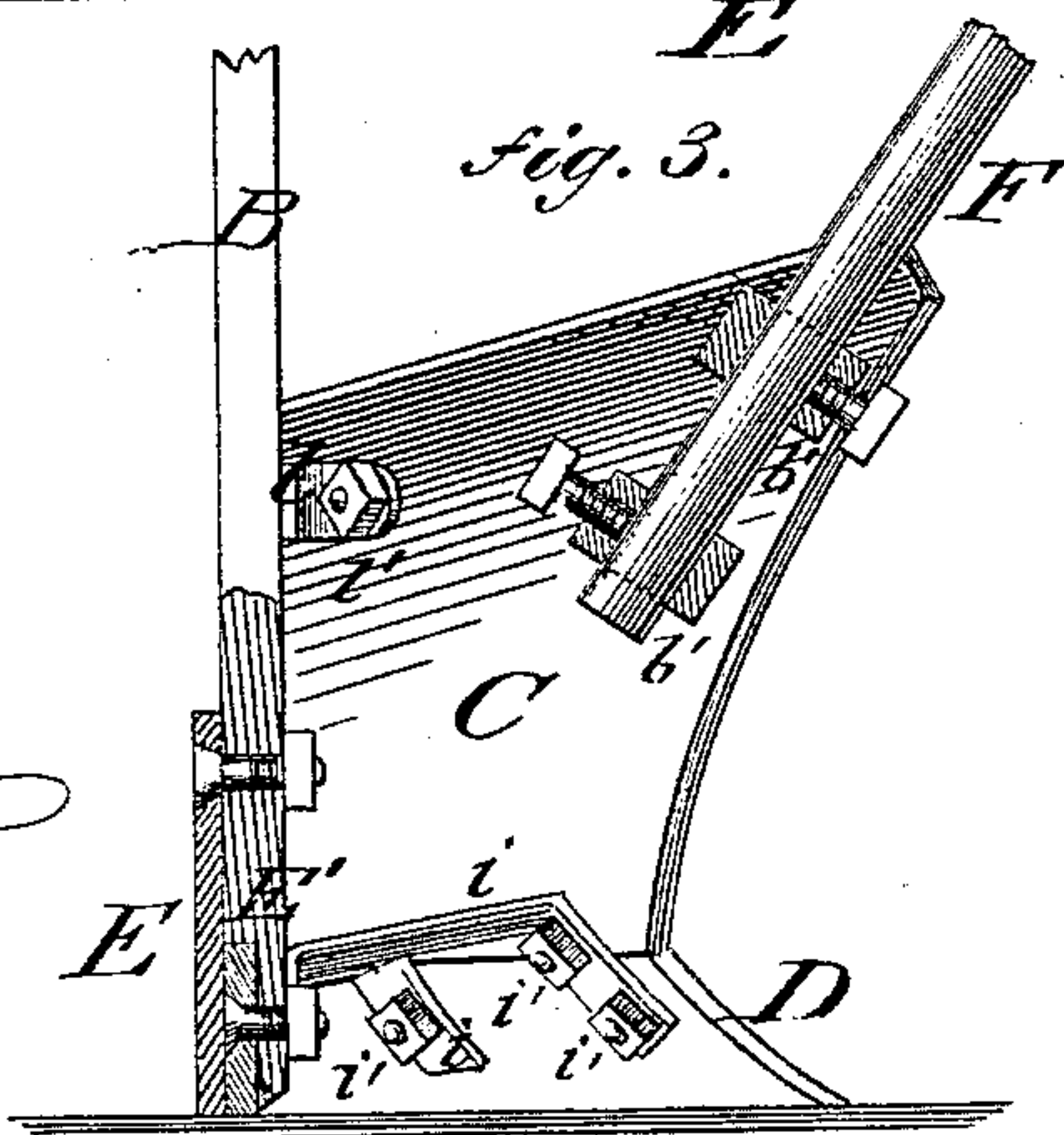
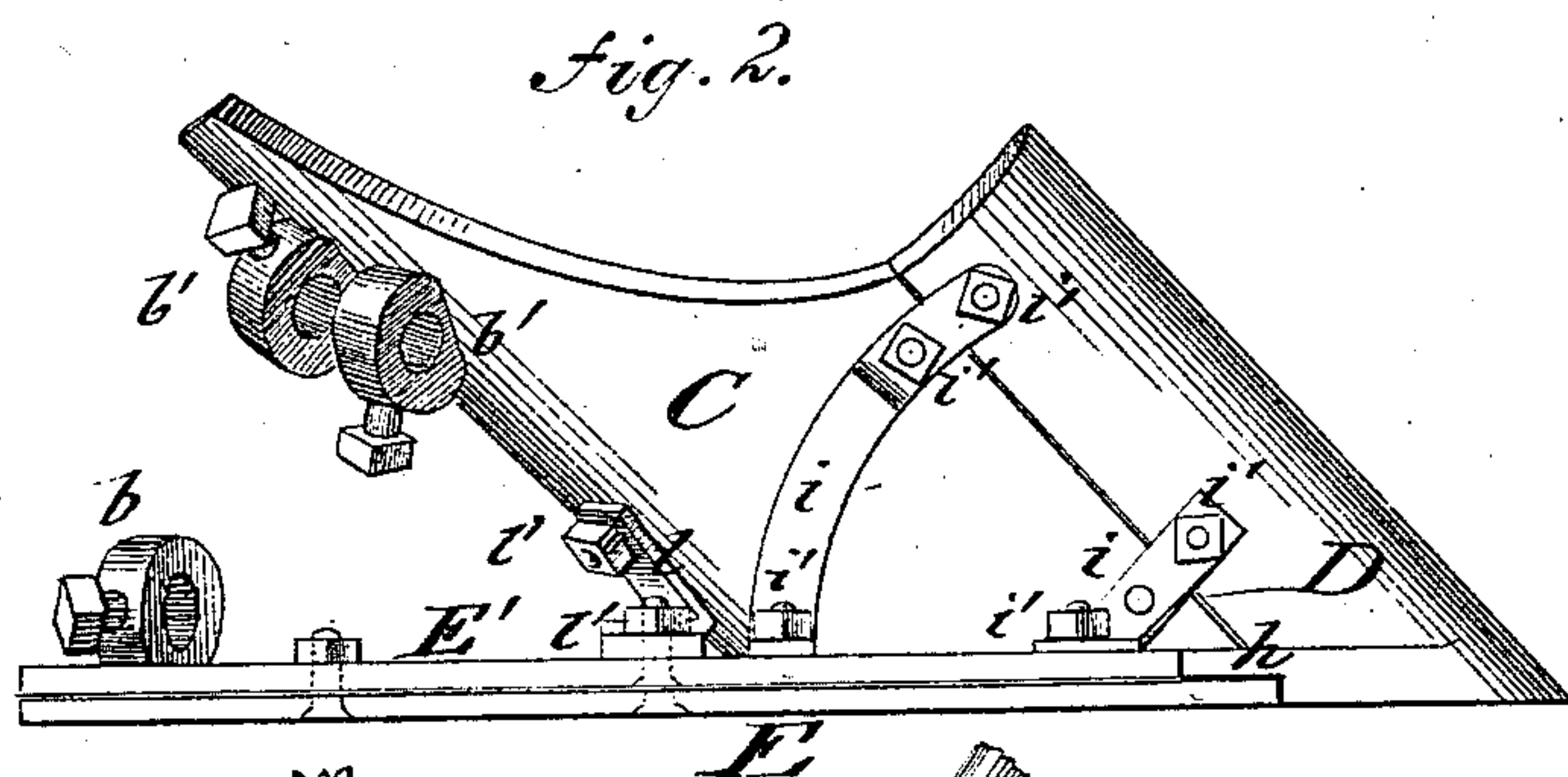
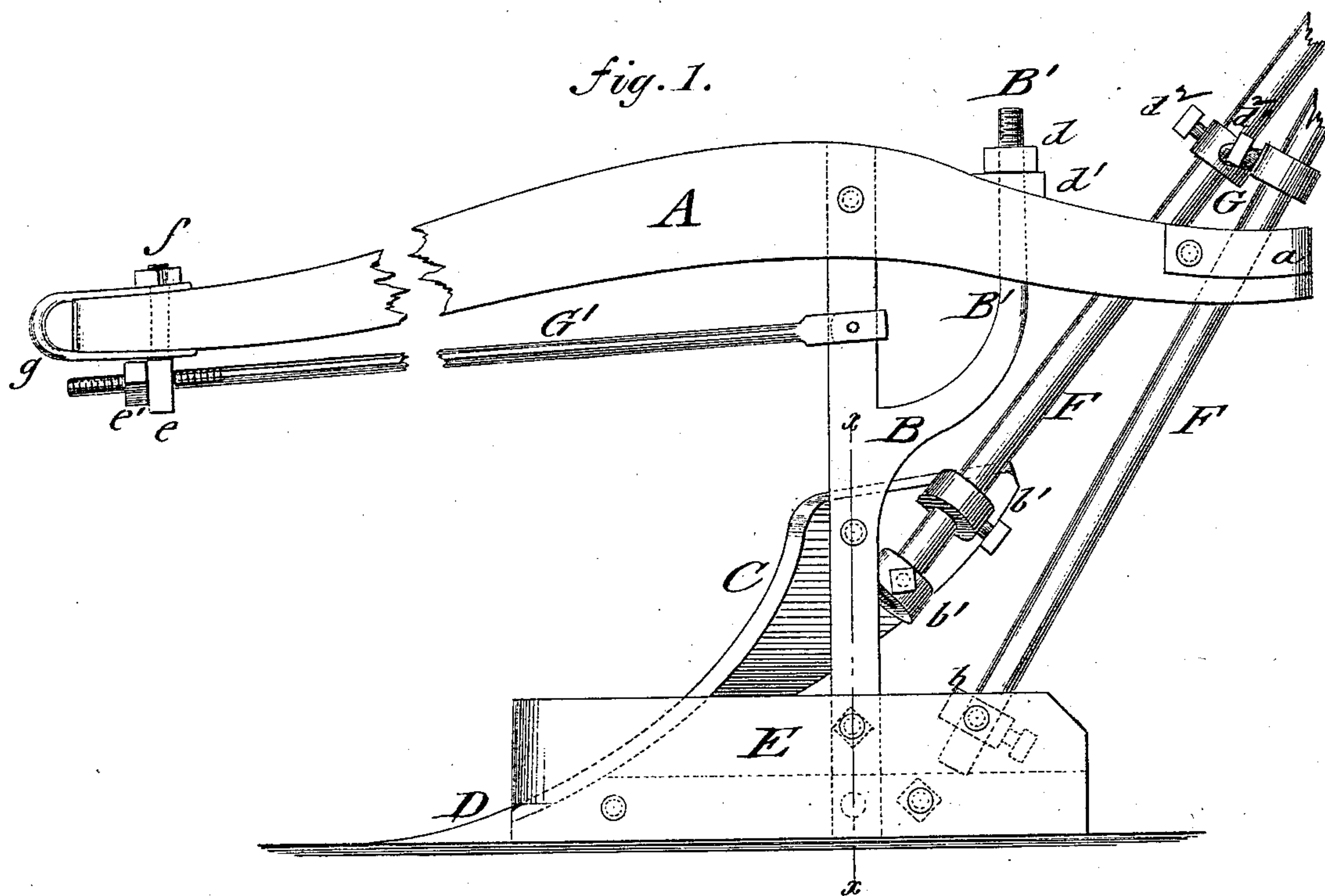


E. WALTER.  
Plows.

No. 148,786.

Patented March 17, 1874.



Witnesses:  
*Gustave Dietrich*  
*Hedgwick*

Inventor:  
*E. Walter*  
Per *Munn*  
Attorneys.



# UNITED STATES PATENT OFFICE.

EDWARD WALTER, OF SALISBURY, MISSOURI.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 148,786, dated March 17, 1874; application filed September 6, 1873.

*To all whom it may concern:*

Be it known that I, EDWARD WALTER, of Salisbury, in the county of Chariton and State of Missouri, have invented a new and Improved Plow, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved plow; Fig. 2, a bottom view of the plowshare with handle detached; and Fig. 3, a rear view of the share, partly in section, on the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described, and then pointed out in the claim.

In the drawing, A represents the plow-beam; B, the standard; C, the mold-board; D, the detachable share, and E the land-side. The handles F are attached to the beam, land-side, and mold-board, one handle passing obliquely through the rear end of beam A, which is suitably strengthened by band or strap *a*, to socket *b* of the land-side, the other being set into two sockets, *b'*, at the under side of the mold-board C. Both handles F are connected above beam A, by a metallic brace, G, with rings or staples, through which the handles pass, being rigidly applied by set-screws *d*<sup>2</sup>. The handle ends are also securely fixed in the sockets *b b* by suitable set-screws, so that the handles may be adjusted higher or lower and closer or wider apart, as desired. The handles may also be fully detached for repairing or replacing by the farmer without sending the plow away. The upper part of standard B is bifurcated, the main arm being pivoted to beam A, while the curved backward-extending arm B passes up through beam A, and is held thereon by means of a nut, *d*, and washer *d*<sup>1</sup>, screwing on the threaded end of arm B'. The beam A is raised or lowered as nut *d* is turned, and thereby the share elevated or depressed accordingly. The increased strain which the beam has to bear thereby is met by a metallic

strengthening-rod, G', which is pivoted to the main arm of standard B, and extends below beam A through a staple or ring, *e*, of clevis-bolt *f*, projecting through the same, and being adjusted on its threaded end by a nut, *e'*, to the different positions of beam A. The clevis *g* is applied to bolt *f*, and transfers the force of the team partly on rod G, preventing the beam A from breaking. The land-side E is applied by strong bolts to the lower end of standard B, and strengthened at the lower edge by a steel plate, E', also connected by bolts, taking the place of the colter, and protecting the land-side E against too rapid wearing out. The plate E' is recessed at the front part for the triangular projecting piece *h* at the under side of share D. The share D is applied, by strong connecting straps and bolts *i i'*, to land-side E and mold-board C, to be easily taken off and put on for sharpening or replacing. The point and share are combined, the point extending in front of land-side, while the land-side E projects above the share, being sharpened at the edge, and assists in breaking the ground. The mold-board C is also applied, by supporting straps and bolts *l l'*, to standard B, to give it sufficient strength for the strain exerted thereon by the handle F.

The construction of the plow is convenient and handy, saving the farmer unnecessary expenses for repairs and adjustment.

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

The combination, with beam A, of bi-branched standard B B', one branch, B', being adjustable through, and the other pivoted in, said beam, and the rod G', pivoted to said standard, and adjustable through a pendant, *e*, as and for the purpose described.

EDWARD WALTER.

Witnesses:

ALBERT STRAUB,  
G. W. BOYDSTON.