

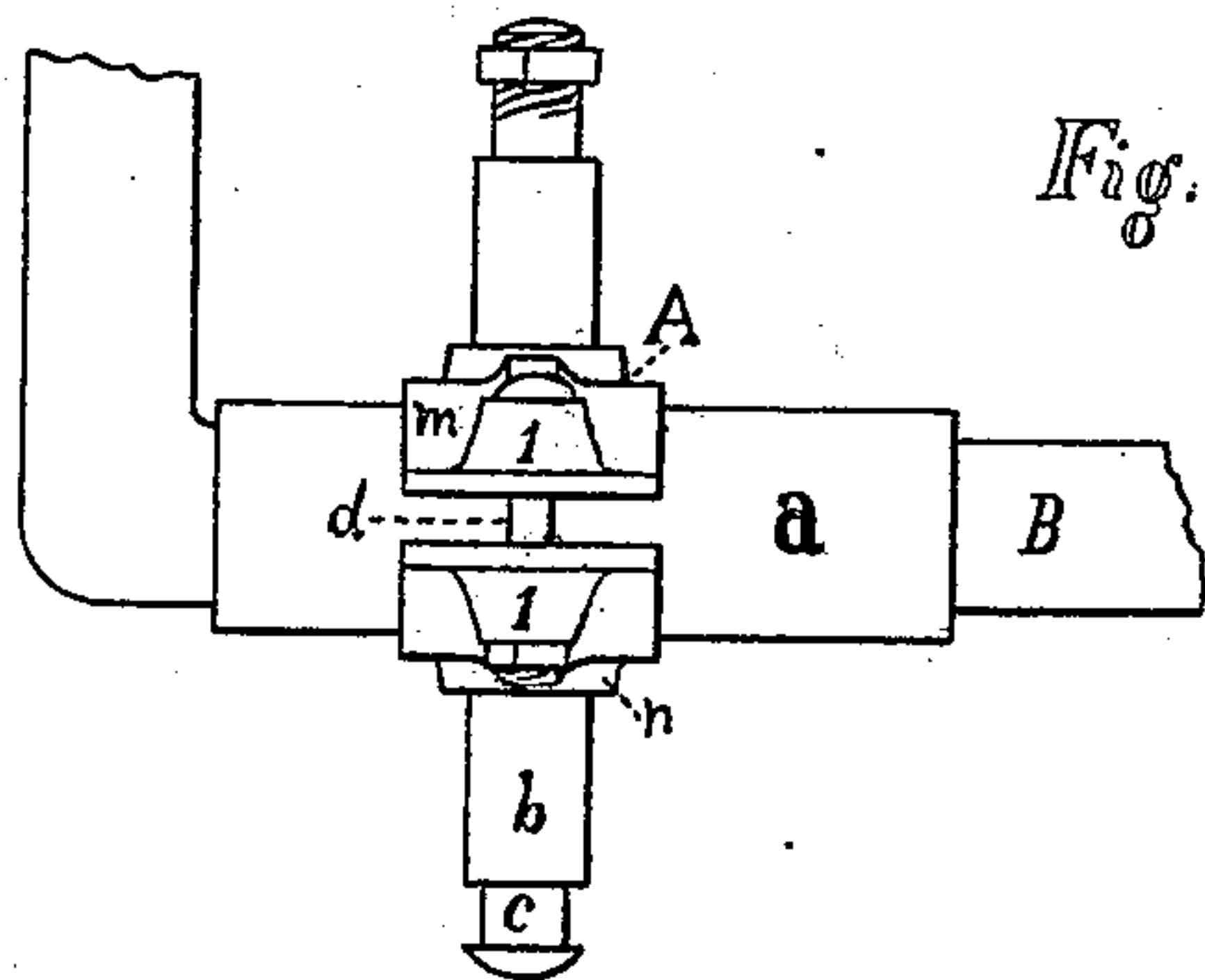
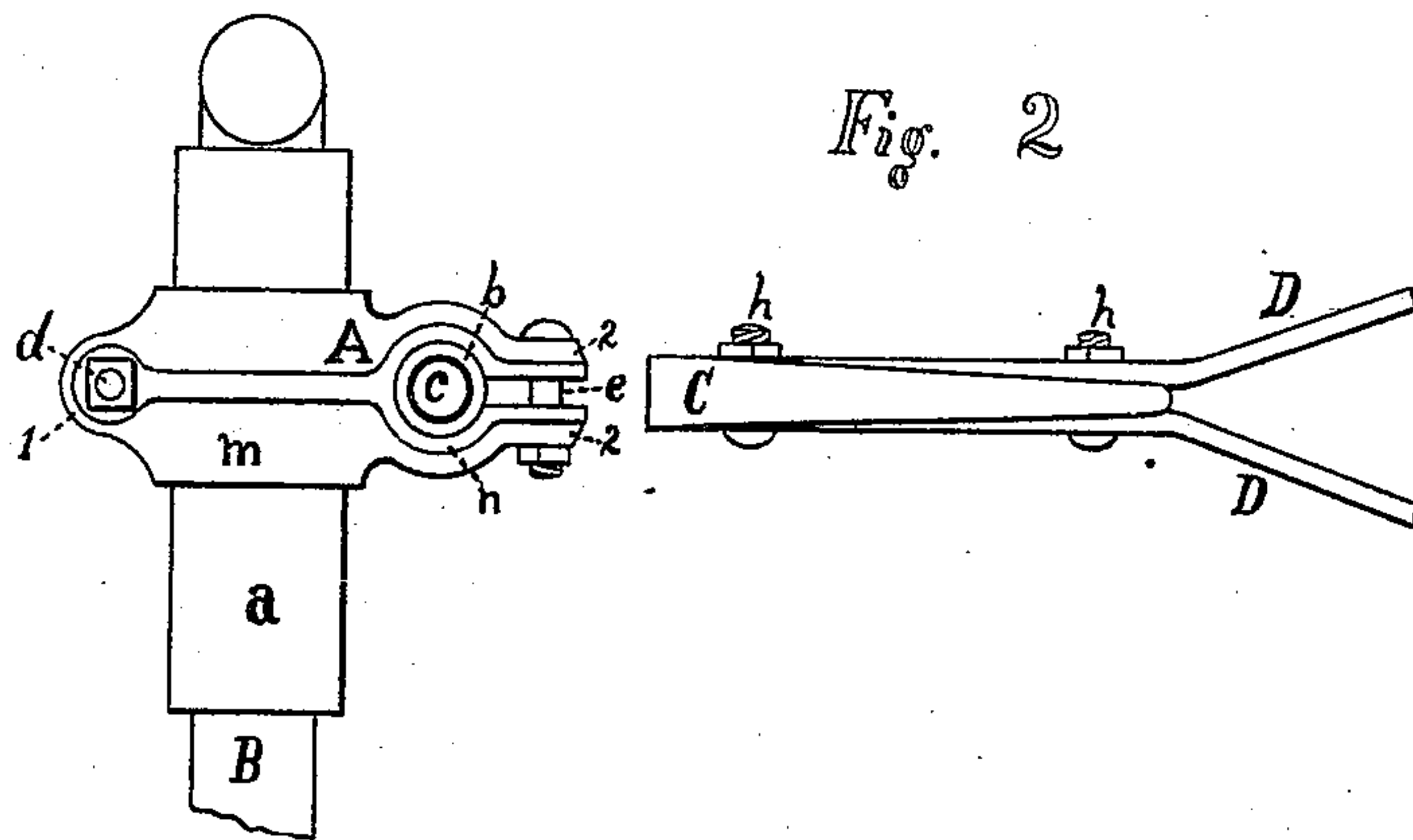
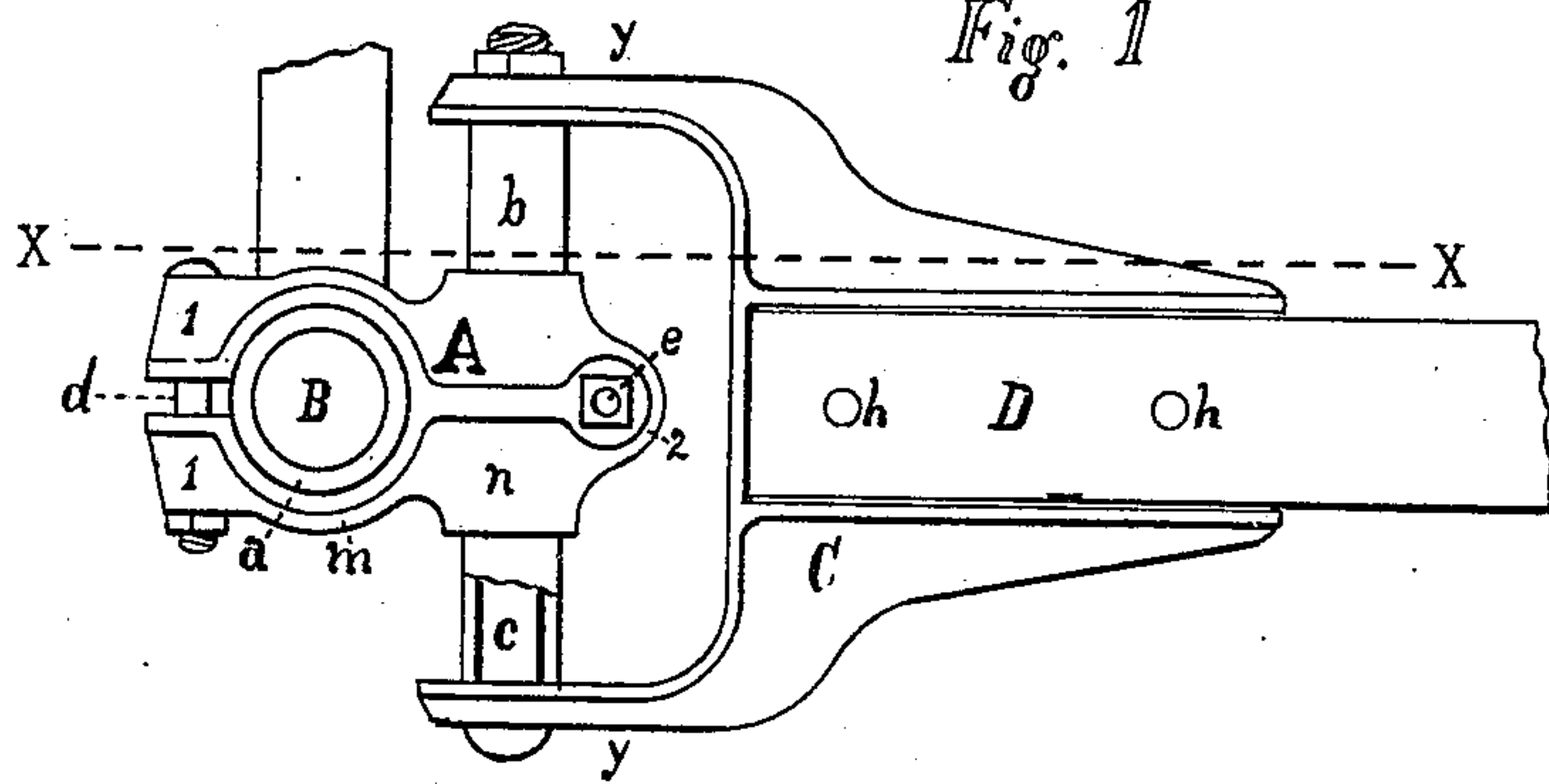
(No Model.)

W. B. YOUNG.

CULTIVATOR.

No. 252,572.

Patented Jan. 17, 1882.



Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM B. YOUNG, OF ALTON, ILLINOIS, ASSIGNOR TO HAPGOOD PLOW COMPANY, OF SAME PLACE.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 252,572, dated January 17, 1882.

Application filed November 7, 1881. (No model.)

To all whom it may concern:

Be it known that I, WM. B. YOUNG, of Alton, in the county of Madison and State of Illinois, have invented a new and useful Improvement in Cultivators, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to that class of cultivators known as "straddle-row walking-cultivators;" and the object is the construction of a coupler and coupling device which shall hold the plows rigidly in an upright position, while permitting both lateral and perpendicular play to the rear end of the plows.

My invention consists, first, in a double-headed coupler having two open-ring clasps in a cross direction to each other, made solid in one piece, with mouthed ends and perforated lips; and, second, in the combination of the parts of the coupling device, as hereinafter specified.

Referring to the drawings, in which like letters refer to like parts, Figure 1 is a side view of the entire coupling device, showing how the parts are arranged, and showing how my improvement—the double-headed coupler A—has mouthed ends, which embrace the two thimbles *a* and *b*, in a cross direction to each other. Fig. 2 is a top view of same, taken on the dotted line *x x*. Fig. 3 is a front view, showing how the two thimbles *a* and *b* are in a cross direction or right angle with each other.

A is my improved double-headed coupler, consisting of two open-ring clasps, *m* and *n*, in a cross direction to each other, made solid in one piece, with mouthed ends embracing the two thimbles *a* and *b*, and with lips 1 1 2 2, in which there are perforations in which the bolts *d* and *e* are seated, as shown in the drawings. The clasp *m* clasps around and is adjustable on the thimble *a*, and the screw-bolt *d* compresses the lips 1 1 together, embracing and claspings rigidly to the thimble *a*, and the clasp *n* clasps around and is adjustable on the thimble *b*, and the screw-bolt *e* compresses the

lips 2 2 together, embracing and claspings rigidly to the thimble *b*.

C is a yoke with arms *y y*, between which the thimble *b* is loosely secured on the bolt *c*, as shown.

D is the drag-bars or plow-beams, united to the yoke with bolts at *h h*.

The relative position of the thimbles *a* and *b* is shown in Fig. 3, in which thimble *a* is shown horizontal, and the thimble *b* is shown perpendicular, crossing each other at right angle, and in Figs. 1 and 3 is shown how the coupler A couples the two thimbles *a* and *b* together. The thimble *a* rotates on the axle-arm B, and the thimble *b* rotates on the bolt *c*, by which the rear ends of the beams have lateral and perpendicular play while being held rigidly upright.

Having thus described and set forth my invention, I claim—

1. In a cultivator, the double-headed coupler A, having two open-ring clasps in a cross direction to each other, made solid in one piece, with mouthed ends and perforated lips, substantially as and for the purpose set forth.

2. In a cultivator, the double-headed coupler A, having two open-ring clasps in a cross direction to each other, made solid in one piece, with mouthed ends and perforated lips, and held in place by clamping-bolts with nuts, in combination with the thimble *a* and thimble *b*, substantially as and for the purpose set forth.

3. In a cultivator, the combination of the double-headed coupler A, having two open-ring clasps in a cross direction to each other, made solid in one piece, with mouthed ends and perforated lips, with compression-bolts and with thimble *a*, thimble *b*, axle-arm B, yoke C, having the arms *y y*, and with bolt *c*, substantially as and for the purpose set forth.

WM. B. YOUNG.

Witnesses:

F. H. FERGUSON,
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