

(No Model.)

2 Sheets—Sheet 1.

H. E. PAYNE.
PLOW.

No. 466,701

Patented Jan. 5, 1892.

Fig 1.

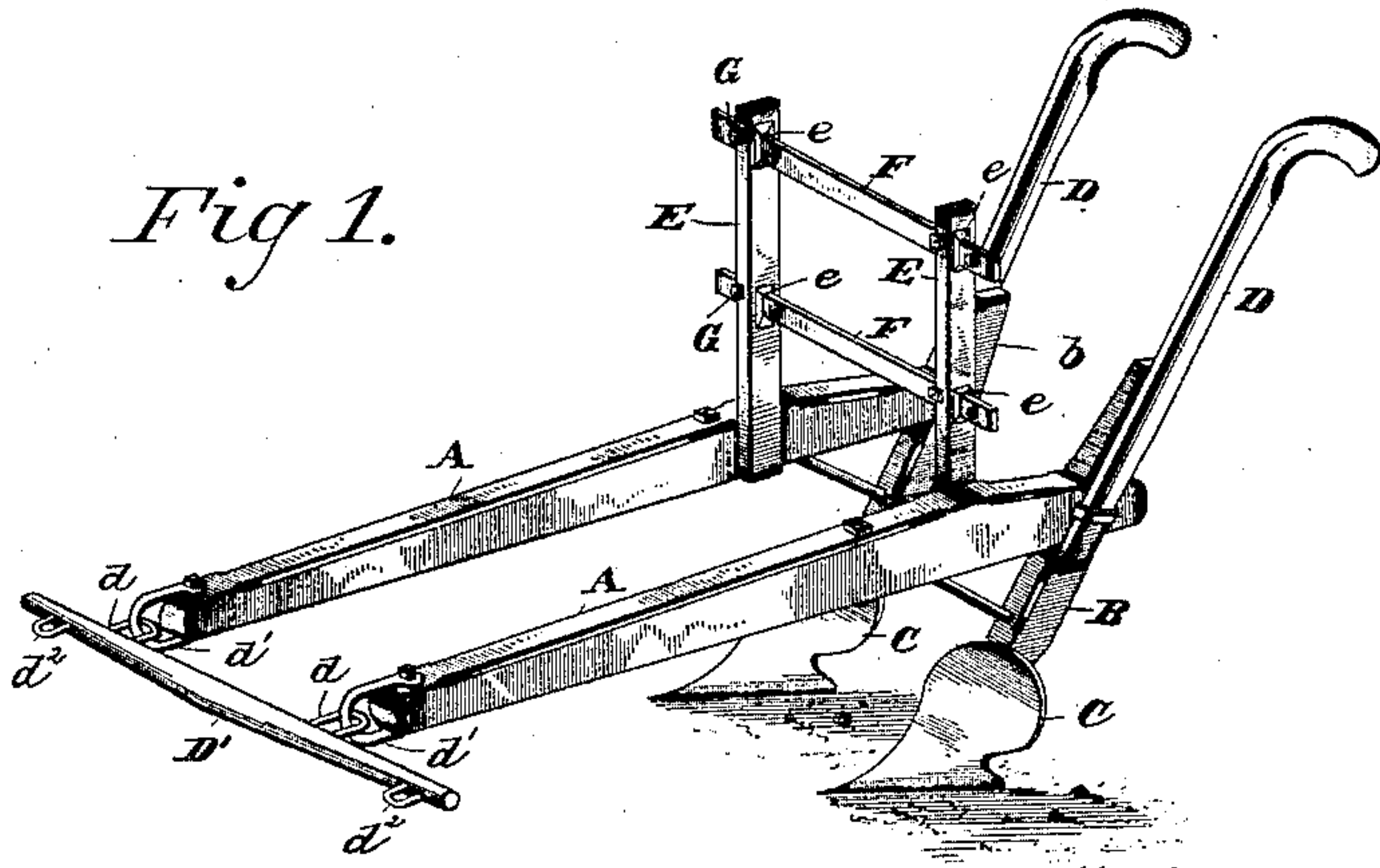


Fig 2.

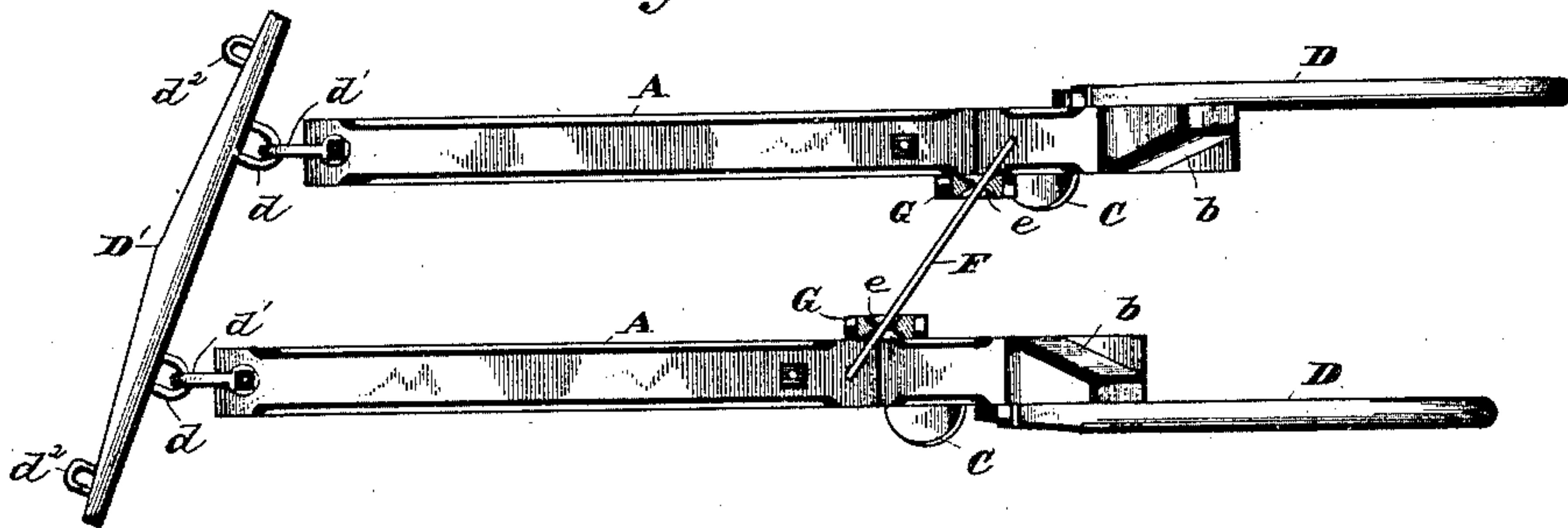
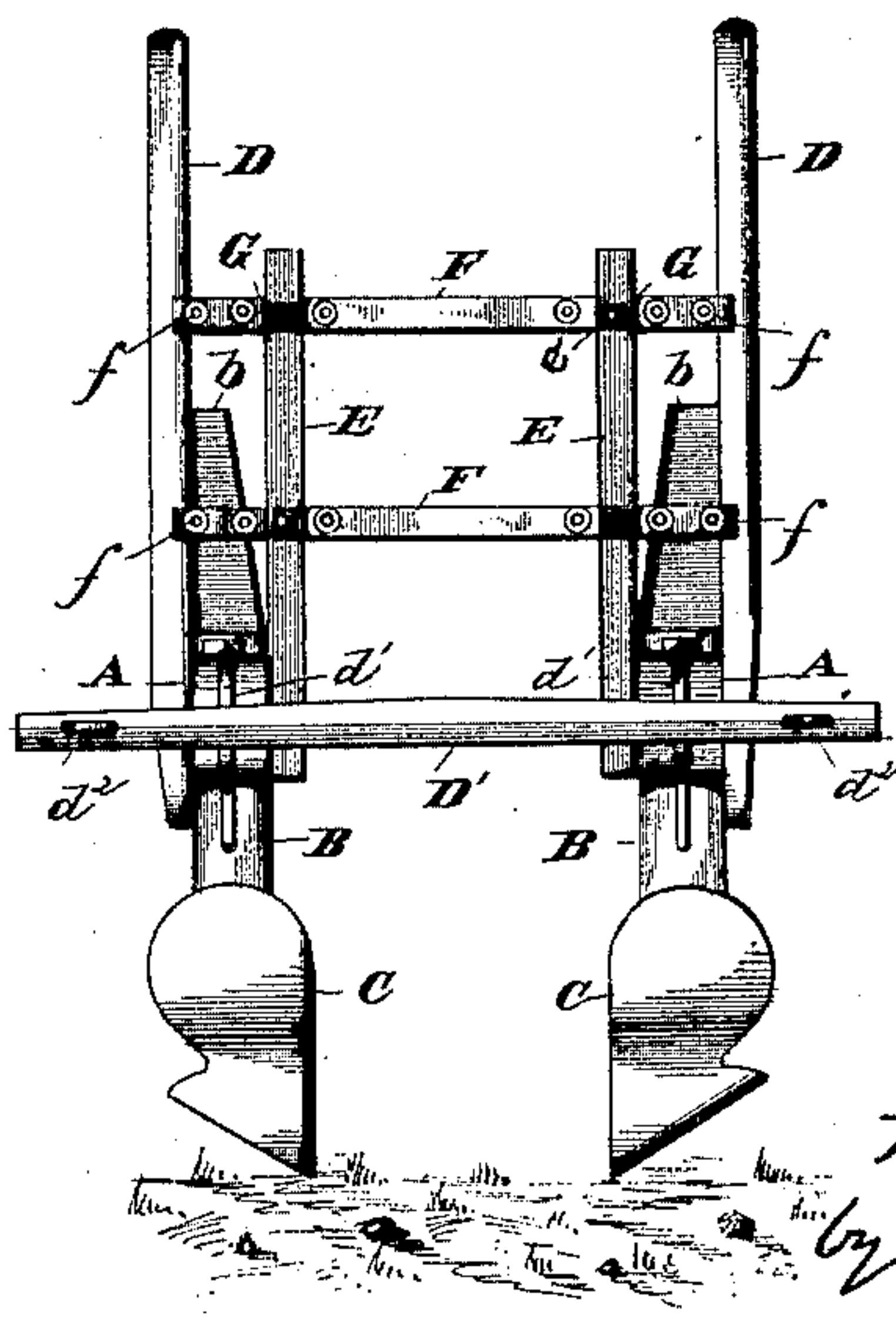


Fig 3.



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2 Sheets—Sheet 2.

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Fig 4.

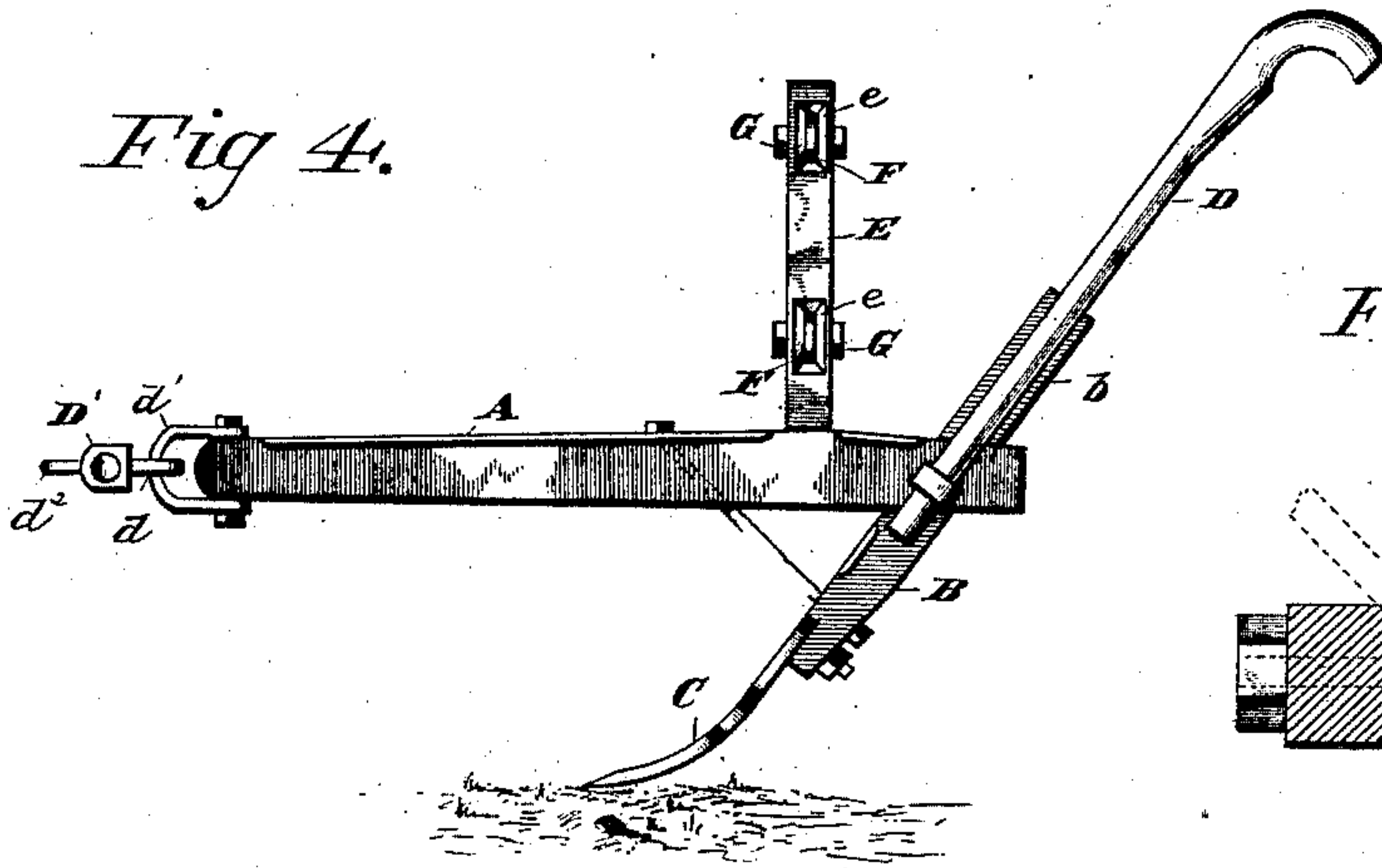


Fig 8.

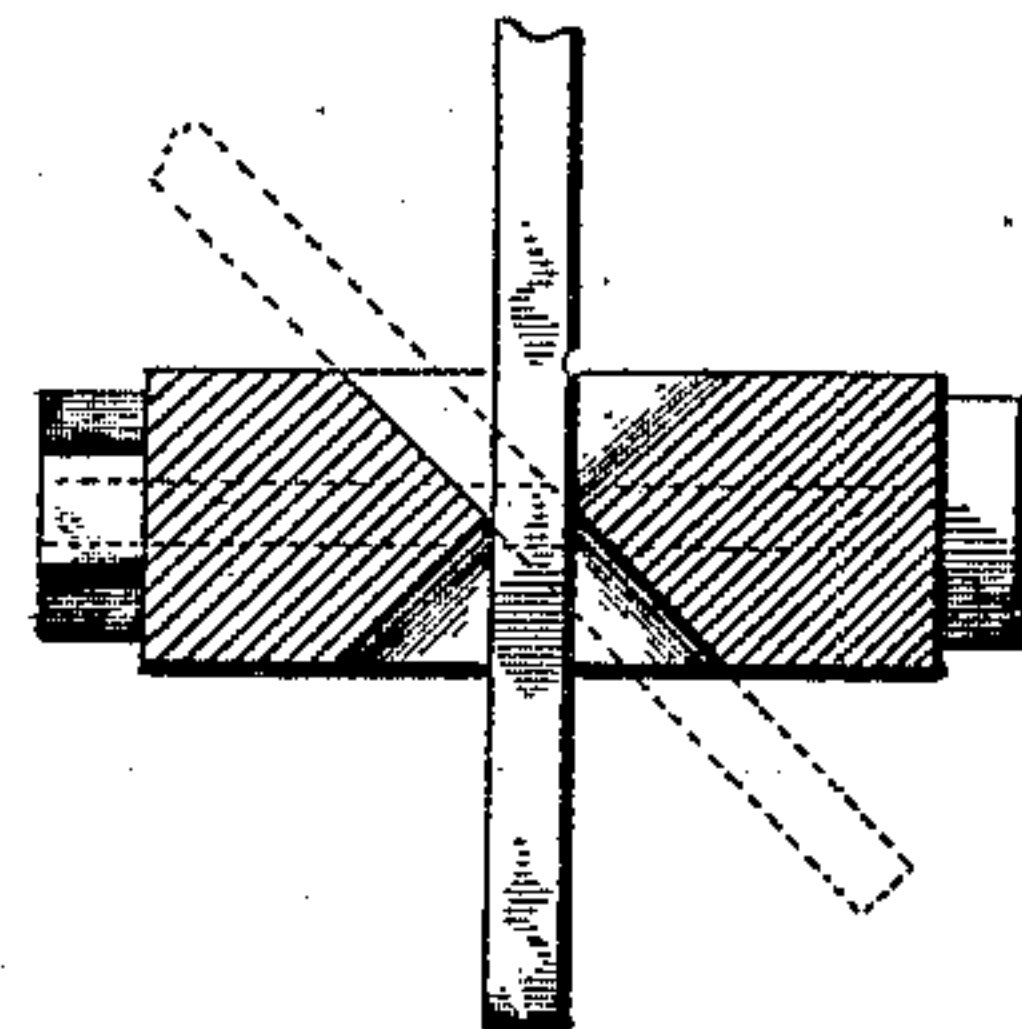


Fig 5.

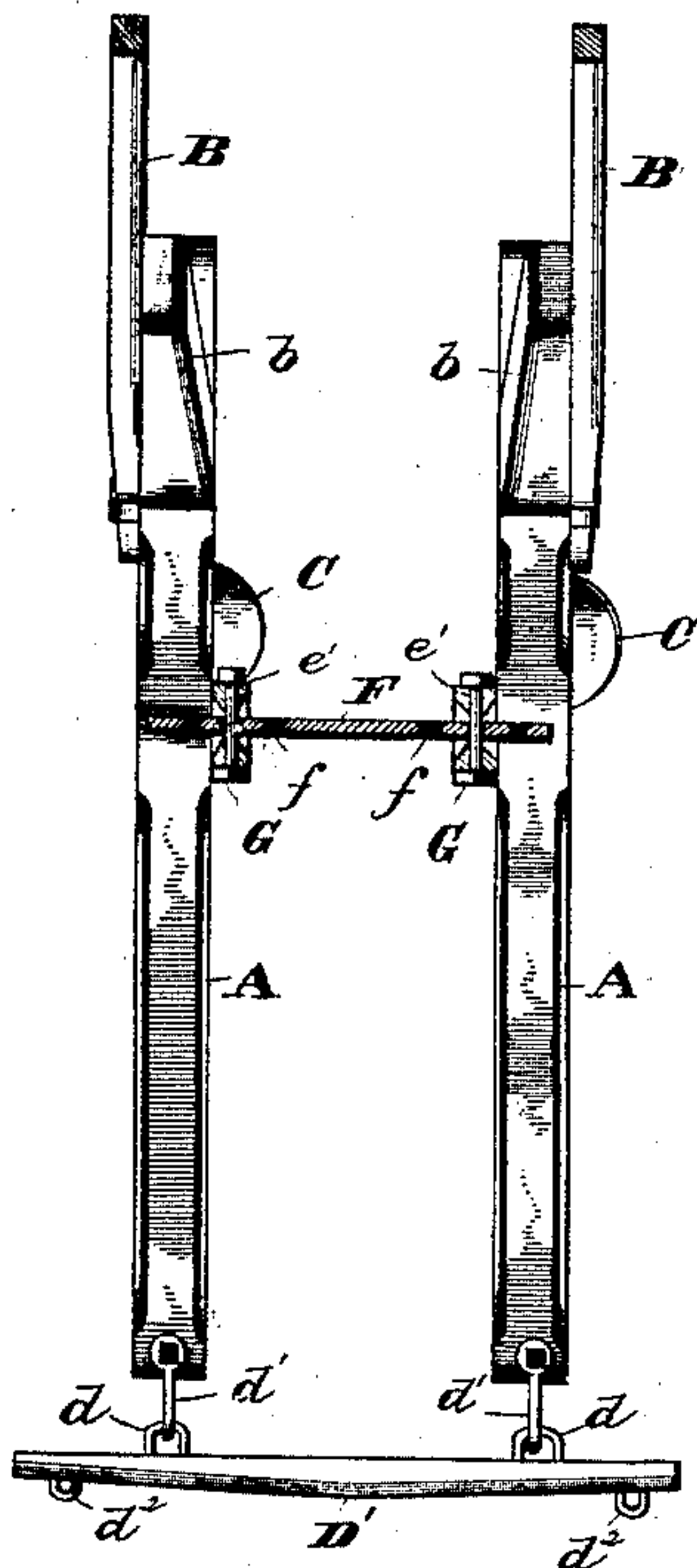


Fig 6.

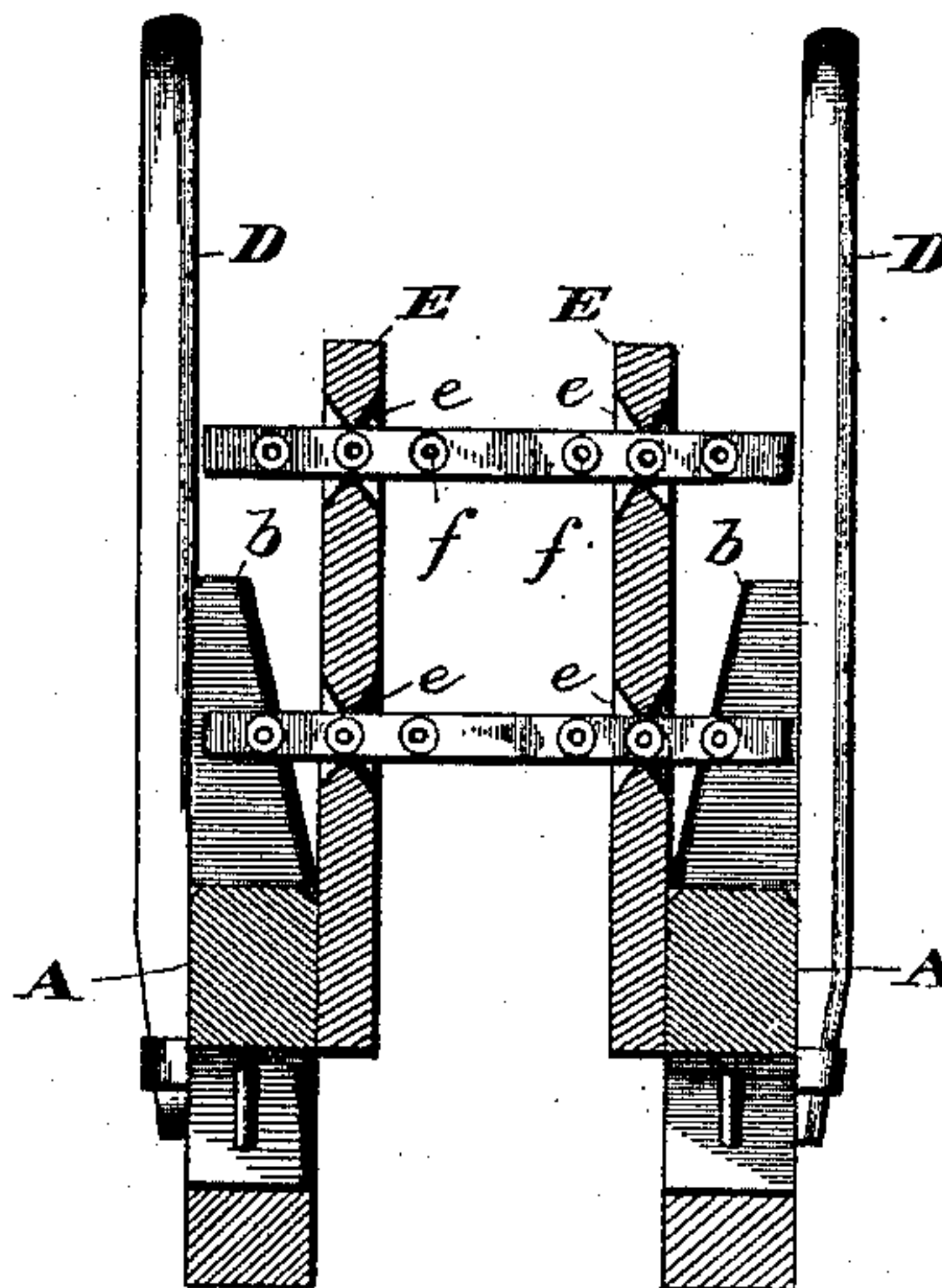
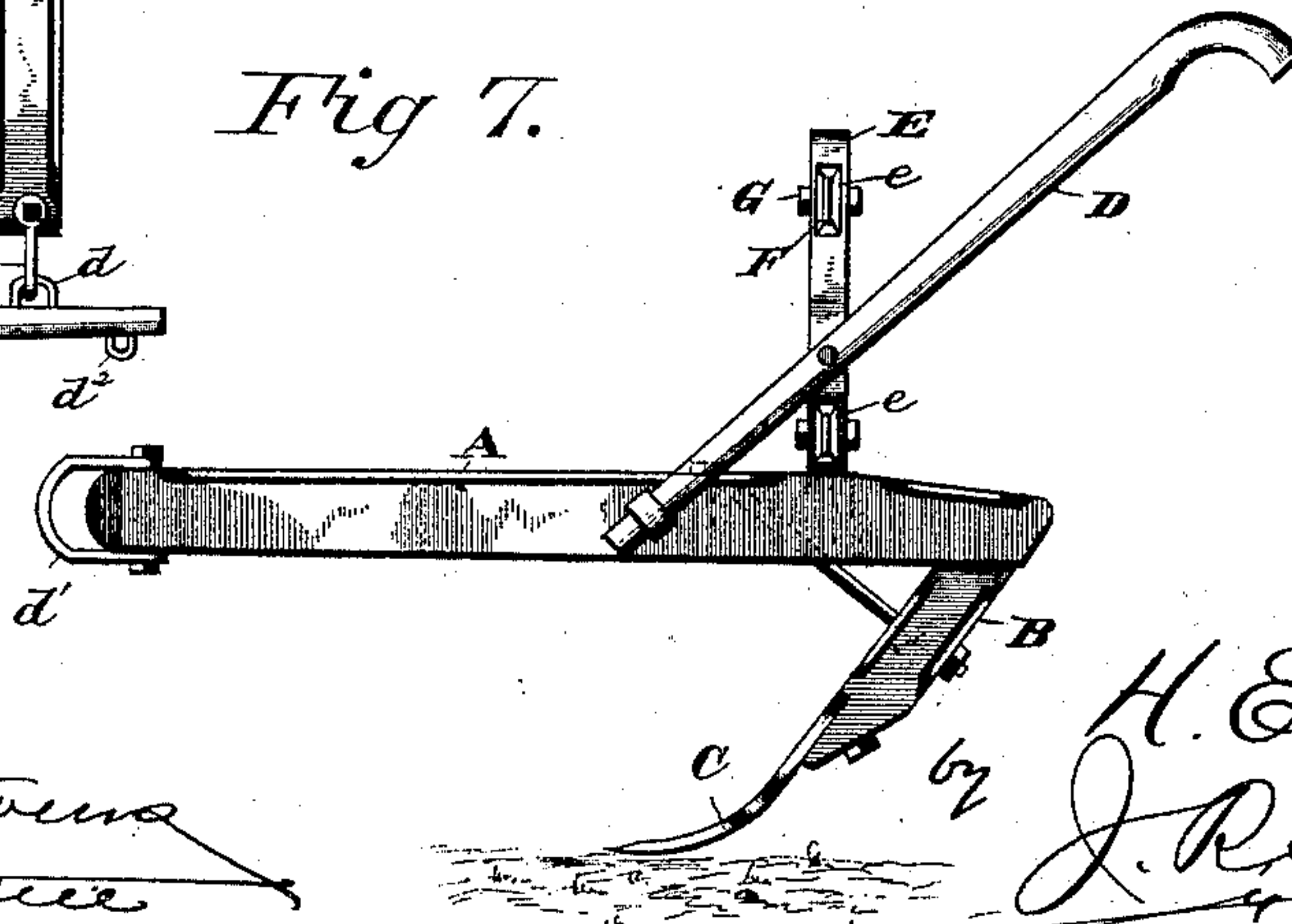


Fig 7.



Witnesses

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UNITED STATES PATENT OFFICE.

HIRAM EZKIEL PAYNE, OF MILTON, TEXAS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 466,701, dated January 5, 1892.

Application filed August 27, 1891. Serial No. 403,847. (No model.)

To all whom it may concern:

Be it known that I, HIRAM EZKIEL PAYNE, a citizen of the United States, residing at Milton, in the county of Lamar and State of Texas, 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 invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to plows, and has particular relation to that class known as "double plows," which are designed to be adjusted nearer to or farther from each other.

The object of the invention is to provide a plow of this character of such construction in which the parts are pivotally connected, whereby each plow is designed to have a partial movement independent of the other.

A further object of the invention is to provide a plow of such construction which will possess advantages in point of simplicity, inexpensiveness, durability, and general efficiency.

To this end my invention consists, substantially, in the construction and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a plow embodying my invention. Fig. 2 is a top plan view of the same, illustrating the partial independent movement of the plows, the uprights being shown partly in section. Fig. 3 is a front end elevation. Fig. 4 is a side elevation. Fig. 5 is a sectional view taken on the line xx of Fig. 3. Fig. 6 is a similar view taken on the line yy of Fig. 4. Fig. 7 is a side elevation illustrating a modification. Fig. 8 is a detail sectional view of one of the uprights.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A A designate the two plow-beams, which may be in the main of any suitable or preferred construction, and are each provided at or near its rear end with a plow-standard B B, carrying at their lower ends plows C C. The standards B are preferably extended above the beams, as shown at $b b$, and to said extensions and to the beams are secured handles D D, the

latter being separate and independent of one another.

D' designates a "buck-head" clevis, which is pivotally connected to the front ends of the beams by means of suitable clips $d d$ and $d' d'$, provided respectively upon the clevis and upon the ends of the beams. The clevis is also provided at each end with a clip $d^2 d^2$, to which draft is applied. By thus pivotally connecting the clevis to the beams the latter are permitted to have a partial longitudinal movement independent of one another, the purpose of which will hereinafter appear.

For effecting the lateral adjustment of the plows with relation to one another and for retaining the latter in adjusted position, I provide means which will now be described. E E designate two vertical uprights, which are rigidly secured one to each of the beams A near their rear ends and project upwardly therefrom. The uprights E are provided near their upper and lower ends with coincident mortises e , extending therethrough. The openings thus provided are beveled from about the center thereof outwardly at each side of the uprights, as clearly shown in Figs. 2 and 5. The uprights E are also provided with bolt-holes e' , extending through said uprights at right angles to the mortises e and intersecting the latter. F F designate two horizontally and transversely disposed bars, which are designed to be received by the mortises e and retain the plows in relative position. To this end the bars are each provided with a longitudinal series of bolt-holes f , the latter being formed flaring at each side of said bars. In practice the bars are secured to the uprights by removable bolts G, which are passed through the bolt-holes in the latter and through the coincident bolt-holes f .

In lieu of the manner above described for securing the handles, the modified construction illustrated in Fig. 7 may be employed. In this instance the upward extensions of the plow-standards are dispensed with and the lower ends of the handles are secured to the beams in advance of the uprights E, and also to the latter at the points of contact therewith. By this arrangement the handles serve as braces for the uprights E.

The operation and advantages of my invention will be readily understood by those

skilled in the art to which it appertains. In use the plows are adapted to straddle a row, the two horses moving at opposite sides of the latter. The plows being loosely connected, 5 each operates in a measure independent of the other. Thus by the employment of such construction, when an obstruction is encountered by one of the plows, the other, owing to the loose connections, is permitted to still continue its progress for a short distance, obviating damage to the implement, such as would 10 be occasioned were the plows rigidly connected together.

I claim as my invention—

15 1. In a plow of the class described, the combination, with a pair of beams each carrying a shovel and provided with a handle, of an upright secured to each beam and provided with coincident mortises, the latter being 20 formed outwardly flaring at each side for the purpose described, and bars fitting closely

within said mortises and adjustably secured to the uprights, substantially as set forth.

2. In a plow of the class described, the combination, with a pair of beams each carrying 25 a shovel and provided with a handle, of an upright secured to each beam and provided with coincident mortises formed flaring at each side, bars fitting within said mortises and provided at each end with a longitudinally- 30 arranged series of apertures flaring at each side of said bars, and bolts adapted to engage the apertures in the bars and secure the latter to the uprights, substantially as and for the purpose set forth. 35

In testimony whereof I affix my signature in presence of two witnesses.

HIRAM EZKIEL PAYNE.

Witnesses:

JAMES WALLACE,
WILEY C. BROWN.