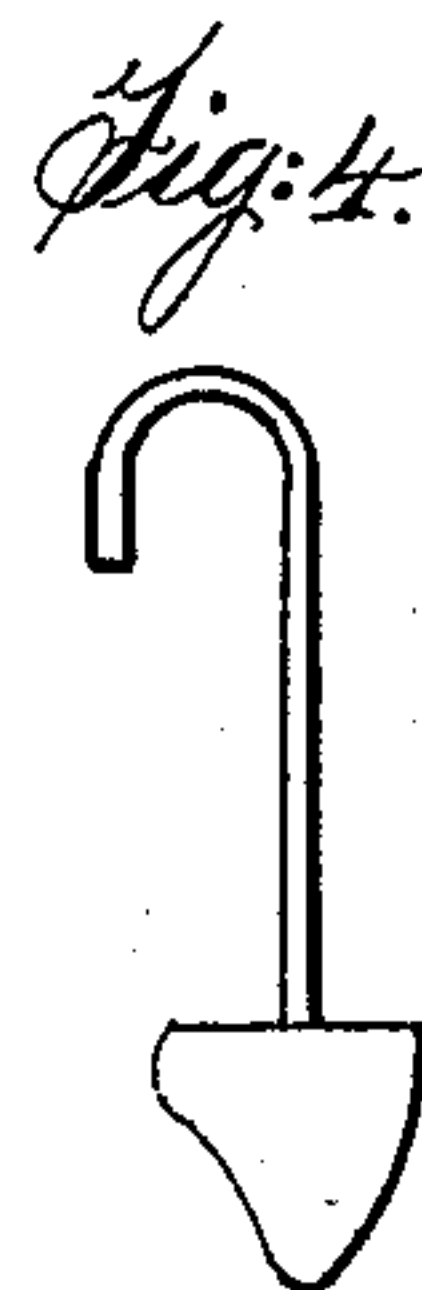
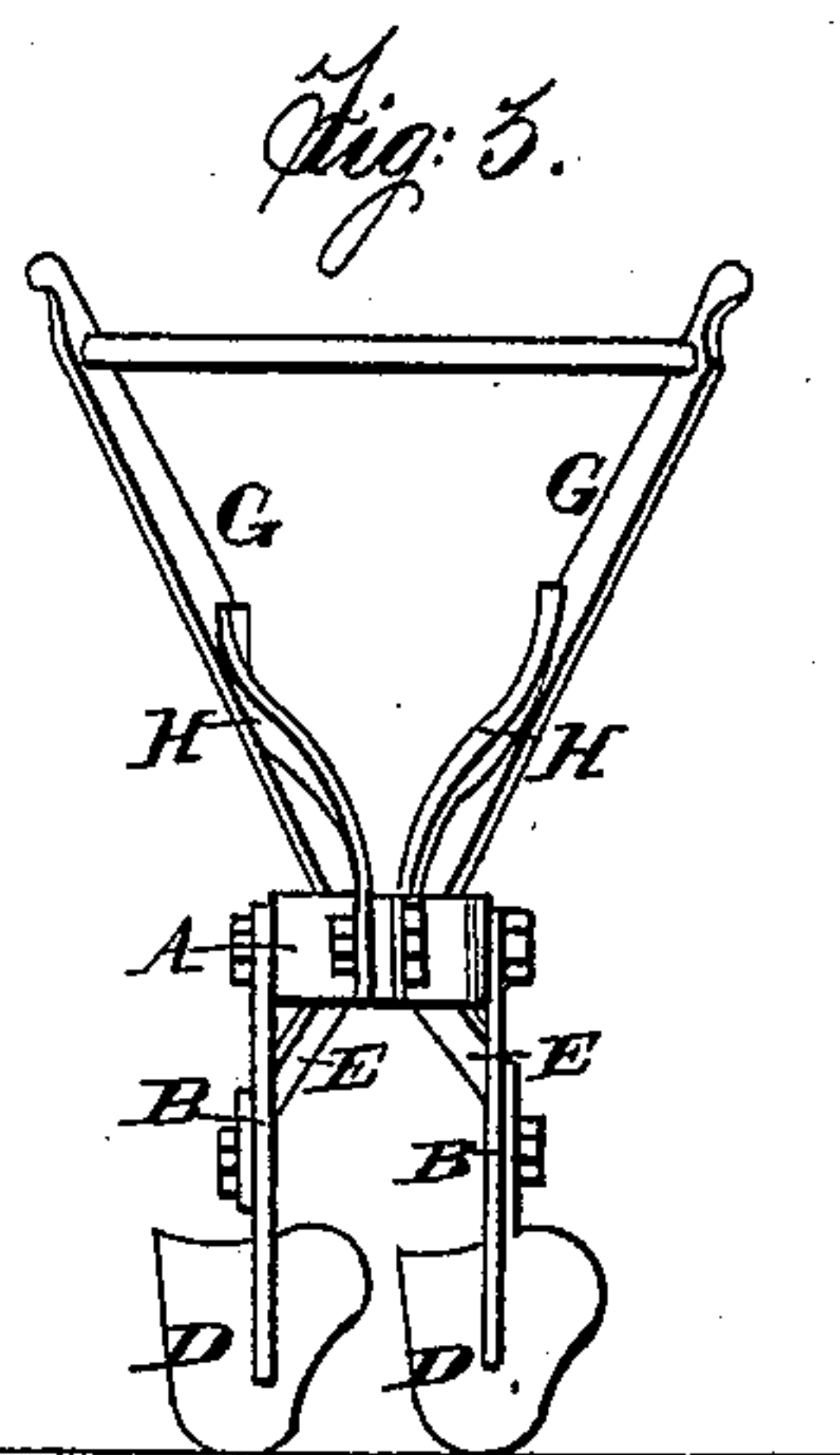
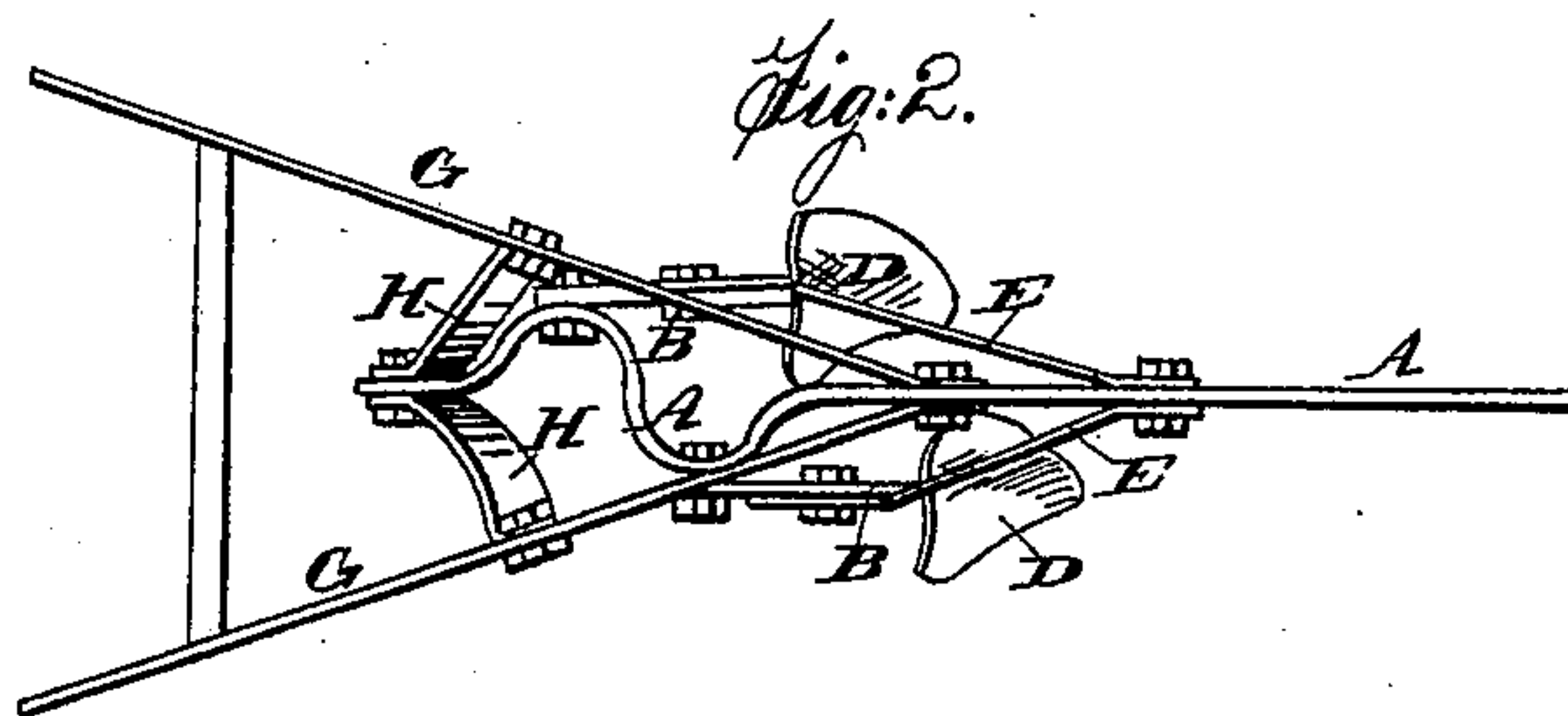
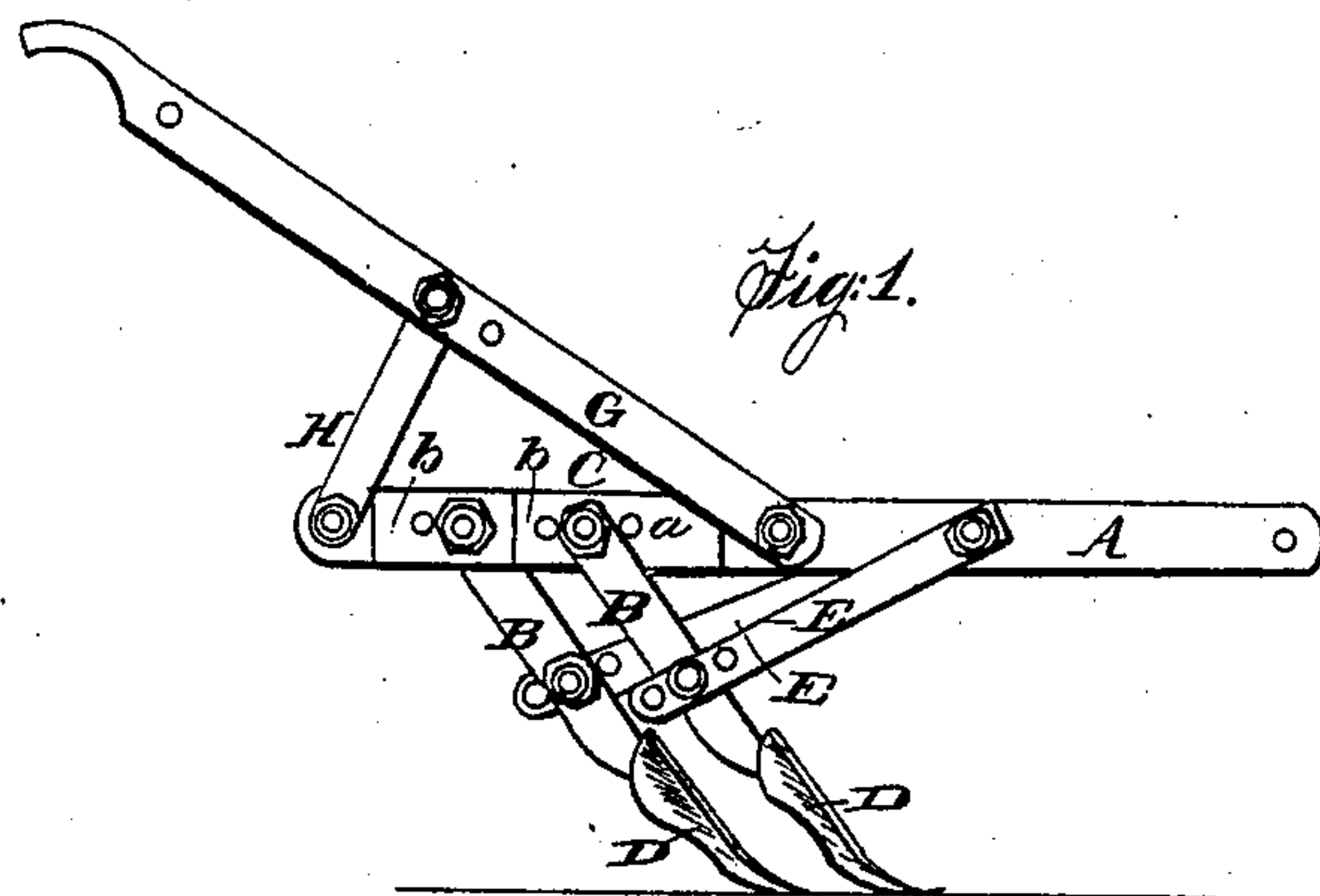


J. HOLLINGER.

Cultivator.

No. 64,868.

Patented May 21, 1867.



WITNESSES:

W. H. V. Burroughs.
Frank Alden.

INVENTOR:

Jacob Hollinger.

United States Patent Office.

JACOB HOLLINGER, OF MILLERSBURG, OHIO.

Letters Patent No. 64,868, dated May 21, 1867.

CULTIVATOR.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JACOB HOLLINGER, of Millersburg, in the county of Holmes, and State of Ohio, have invented certain new and useful improvements in Cultivator Frames; and I do declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of the cultivator.

Figure 2, a view of the top.

Figure 3, a rear end view.

Figure 4, a detached section.

Like letters of reference refer to like parts in the several views.

This implement is constructed of iron, and of which A, fig. 1, is the beam, the rear end of which, it will be seen, is deeply curved on each side of a right line of the beam, as shown in fig. 2. To the outside of each curvature is attached a standard, B, by a bolt and nut, C, and to the lower end of which are secured the shares D. The lower ends of these standards are stayed by the braces E, fig. 1, and which are bolted to the beam and standards, whereby the said standards are made adjustable, as will hereafter be shown. G are the arms of the implement, and which are bolted to the beam and stayed by the braces H, fig. 1. The manner of adjusting the standards and shares so as to throw them inward or from the rows, is as follows: By shifting the bolts from one hole to another, thus to position the shares so as to throw the dirt inward, the standards are changed from the side of the curve, as shown in the drawing, and bolted to the same a little forward in the hole *a*, fig. 1. In virtue of the curve, this change will turn the foot or share partially around, and thus will throw the loosened earth inward or from the rows. And so, on the contrary, to throw the dirt toward the rows, the standards are secured in the holes *b*. This change, also, in virtue of the curve, will turn the foot or share in the opposite direction, and thus will throw the dirt against the rows. The direction of the standard may be changed from that shown in fig. 1 by shifting the bolt to either of the neighboring holes, thus causing the shares to enter the ground more or less, as the change may determine.

The special advantage of this cultivator is that it is made without a frame, or rather side-beams, in which to secure the standards and make them stand apart, the deep curves of the beam, in this implement, answering the place of such side-beams; hence the cultivator is much lighter and of greater simplicity in structure, with equal strength and durability. Fig. 4 is a form of standard which may be used instead of those above described. In this case a straight beam will be required, in place of the curved one referred to.

What I claim as my invention, and desire to secure by Letters Patent, is—

The curved beam A, as arranged, in combination with the adjustable standards B, and braces E H, for the purpose and in the manner substantially as set forth.

JACOB HOLLINGER.

Witnesses:

GEORGE BENJAMIN,

ANDREW J. BELL.