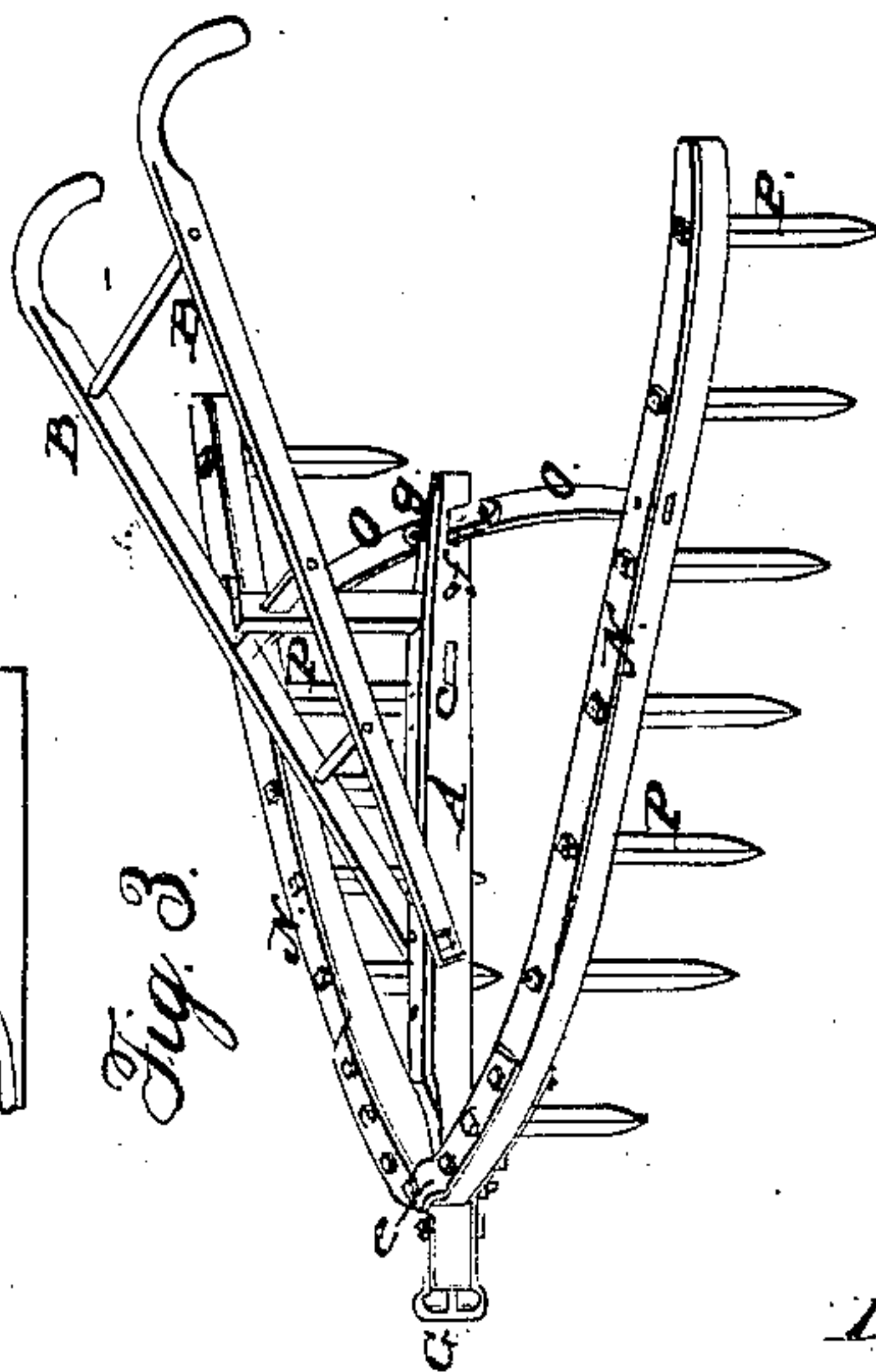
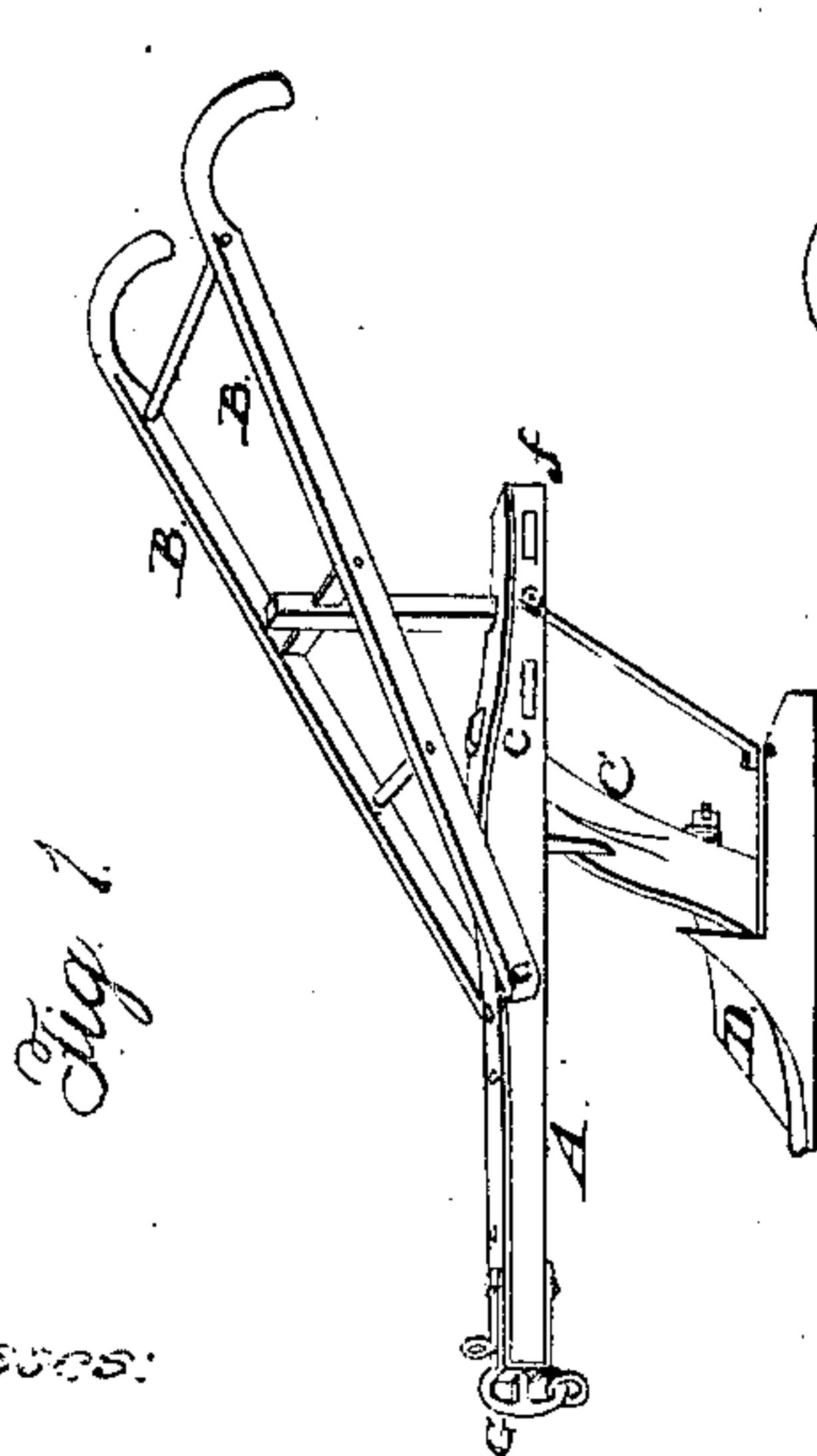
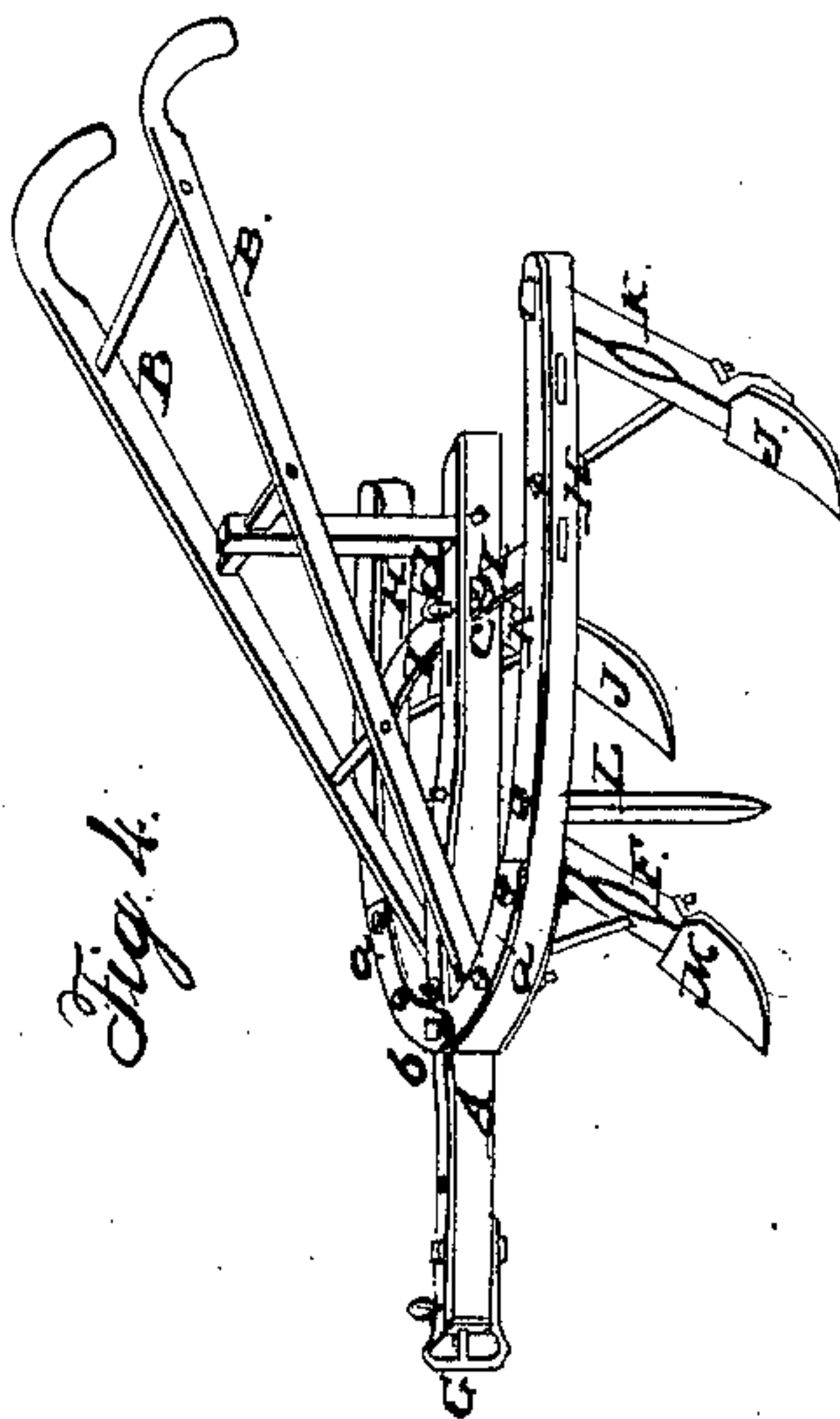
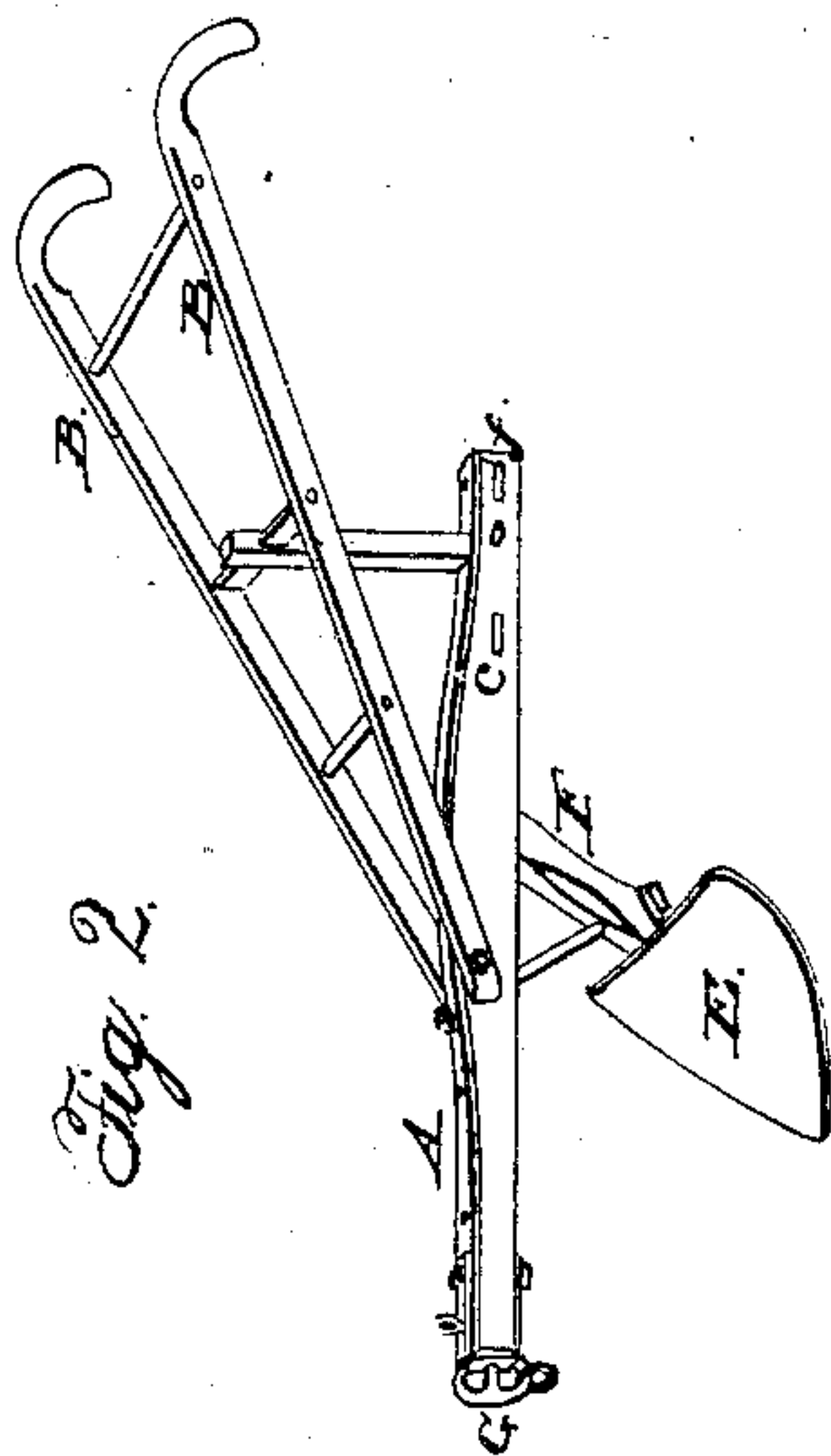


T. E. C. BRINLY.

Cultivator.

No. 30,119.

Patented Sept. 25, 1860.



Witnesses:

J. W. Crowl  
R. S. Spurr

Inventor:

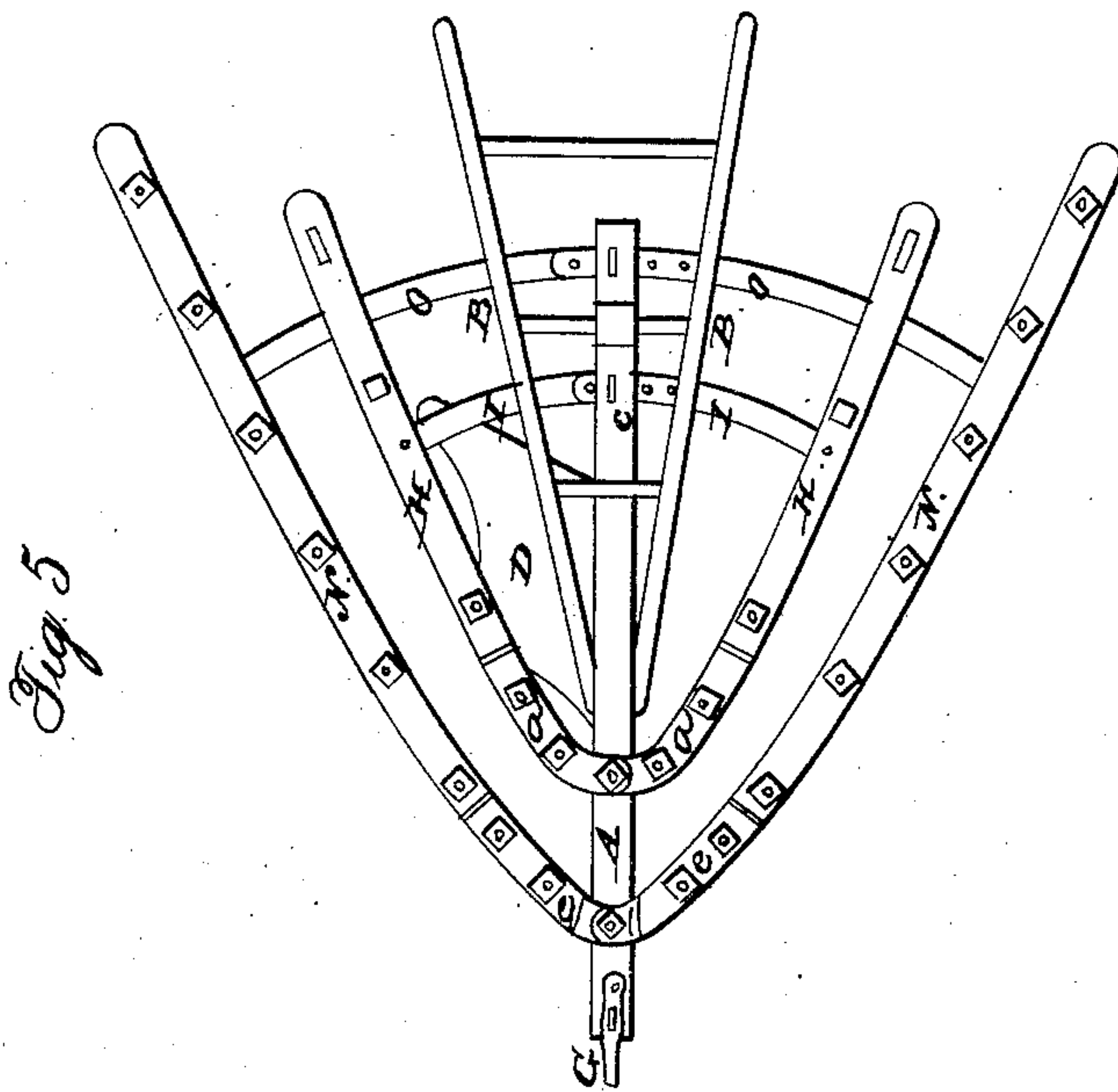
T. E. C. Brinly  
by *[Signature]*  
Att'y

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# UNITED STATES PATENT OFFICE.

T. E. C. BRINLY, OF LOUISVILLE, KENTUCKY.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **30,119**, dated September 25, 1860.

*To all whom it may concern:*

Be it known that I, T. E. C. BRINLY, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and useful Combination of a Plow, Harrow, and Cultivator; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my invention as a plow; Fig. 2, a perspective view of my invention as a shovel-plow; Fig. 3, a perspective view of my invention as a harrow; Fig. 4, a perspective view of my invention as a cultivator. Fig. 5 is a plan view of my improvement.

Similar letters of reference indicate corresponding parts in the several figures.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a plow-beam, and B B handles attached thereto.

C, Fig. 1, is a standard attached to the beam, and D is an ordinary mold-board and share attached to the standard. When the mold-board D is not required an ordinary shovel-share, E, may be employed, as shown in Fig. 2, the share E being attached to a separate foot or standard, F, which may be secured to the beam, as usual. The standards C F should be so arranged that they may be readily attached to and detached from the beam.

To the front end of the beam A a clevis, G, is attached. This clevis may be of the usual or any proper construction.

H H represent two wings or arms, which may be of slightly curved form. These wings or arms may be of wood, and at their front ends metal plates *a a* are secured, said plates projecting in front of the wings or arms, so that they may extend over and under the beam A, overlap each other, and form a joint by having a pin, *b*, passing vertically through them and through the beam. The wings or arms H H are placed one at each side of the beam, as shown clearly in Fig. 4, and to the inner side of each wing or arm there is attached a curved bar, I, the inner ends of which pass through a mortise, *c*, in the beam A, the bars I I overlapping each other and being perforated, so that a pin, *d*, may pass through them at varying points and secure the wings or arms at a greater or less distance apart, as may be desired.

To the wings or arms H H cultivator-shares J are attached, said shares being secured to feet or standards K, which are secured to the back parts of the arms or wings. To the latter there may be also attached harrow-teeth L.

When the implement is used as a cultivator a cultivator-share, M, is employed, the latter being attached to the same foot F as the shovel-share E.

N N are two wings or arms, which are attached at their front ends to the beam A by a pin, *e*, precisely in the same way as the wings or arms H H, one attached to the beam A. The wings or arms N have attached to them curved bars O, which pass through a mortise, *f*, in the beam, overlap each other, are perforated, and have a pin, *g*, passing through them at any desired point to secure the wings or arms at the proper distance apart. The arrangement of the wings or arms N N is precisely the same as that of the wings or arms H H. The former, however, are longer than the latter, are attached nearer the front end of the beam, and have harrow-teeth P inserted in them, as shown in Fig. 4.

From the above description it will be seen that by detaching both sets of wings or arms H H N N the implement may be used either as a shovel or ordinary mold-board plow, either share E or D being used, as may be desired. By attaching the wings or arms H H and having a cultivator-share attached to the foot F a perfect adjustable cultivator is obtained, and by detaching the arms H and applying the arms N N a harrow is obtained. By removing one of the cultivator wings or arms H a double-shovel plow is obtained.

The implement as a whole is extremely simple and efficient, and may be afforded at a much less price than the aggregate cost of the three separate implements now required.

I do not claim separately any of the within-described parts; but

I do claim as new and desire to secure by Letters Patent—

The combination and arrangement of the plow-beam A, provided with removable feet or standards D C F, and the two pairs of adjustable wings or arms H H N N, provided respectively with the shares J and teeth L, as and for the purposes herein set forth.

T. E. C. BRINLY.

Witnesses:

PETER VANCE,  
ALLEN MATHES.