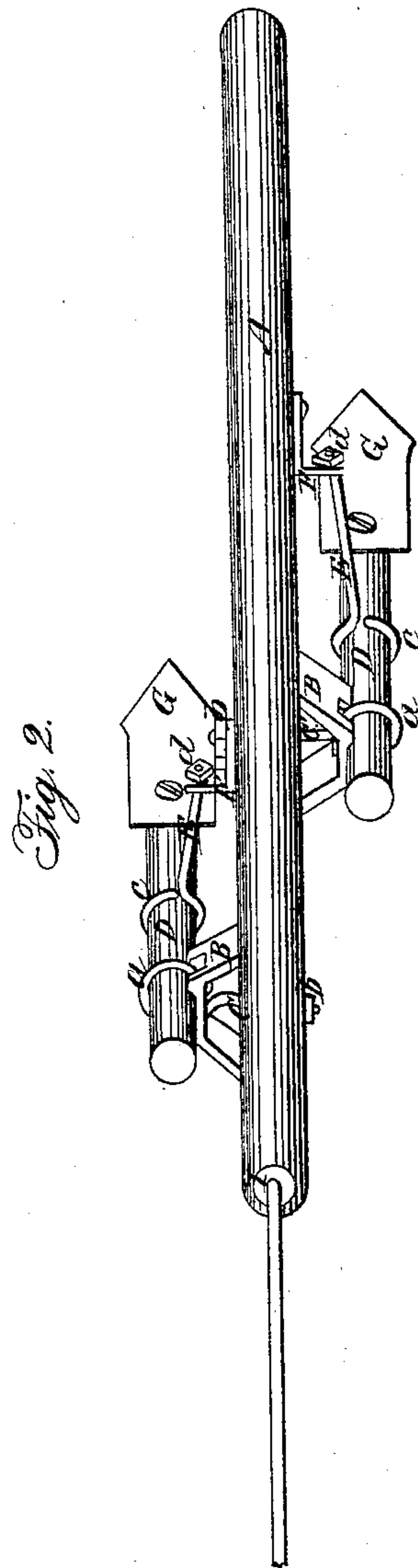
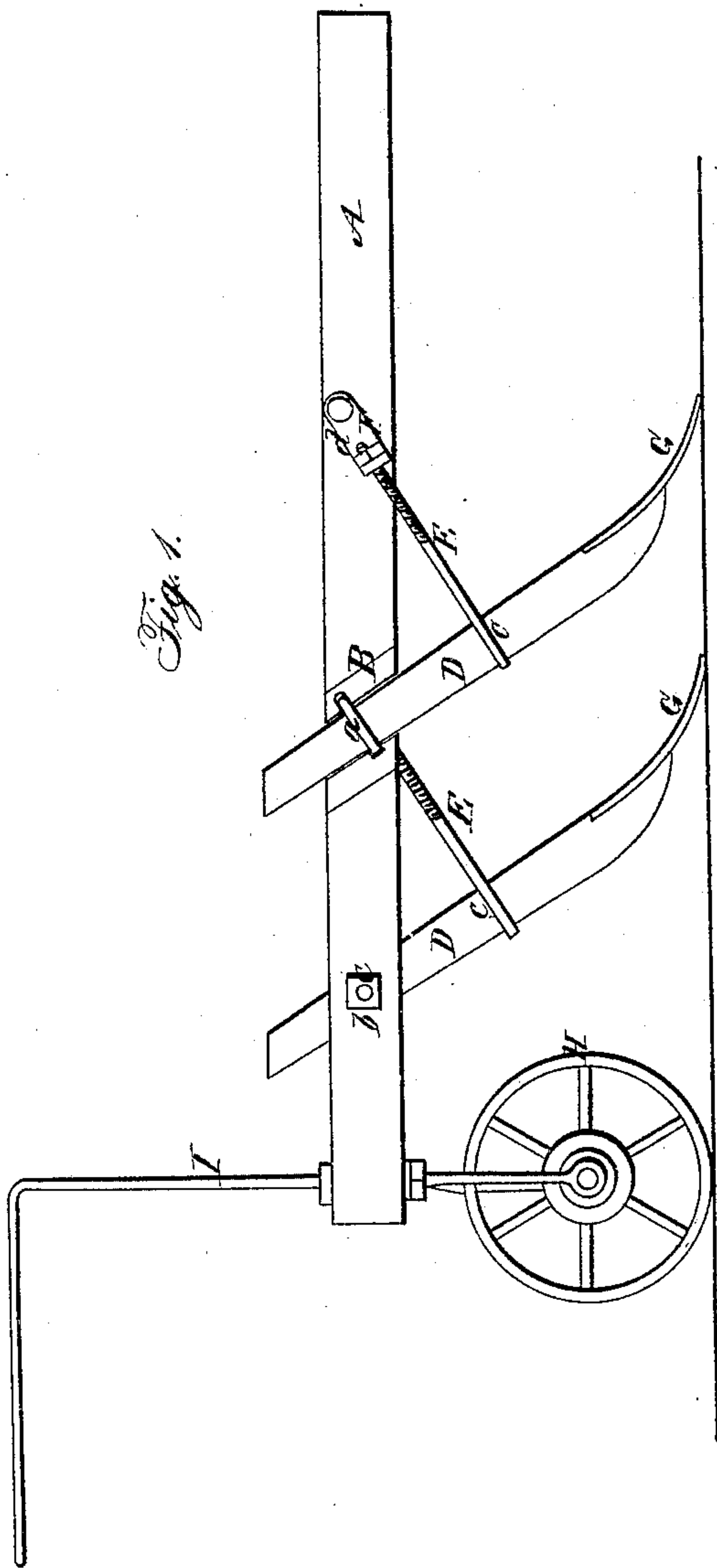


S. M. WHITNEY.
Cultivator.

No. 61,294.

Patented Jan. 15, 1867.



Witnesses:

Theo. Finch
J. A. Service

Inventor:

S. M. Whitney
Per Messrs. H. C. & Co.
Attorneys

United States Patent Office.

SILAS M. WHITNEY, OF GALESBURG, ILLINOIS.

Letters Patent No. 61,294, dated January 15, 1867.

IMPROVEMENT IN CULTIVATORS.

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, SILAS M. WHITNEY, of Galesburg, in the county of Knox, and State of Illinois, have invented a new and improved Double Shovel Cultivator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention.

Figure 2, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved manner of attaching the shovel standards to the beam, whereby the standards, and consequently the shovels, may be adjusted higher or lower or set to work at any required depth, and also adjusted in a more or less oblique position, as occasion may require. The invention also relates to a gauge-wheel applied to the rear part of the beam, for governing the depth of the penetration of the shovels, and admitting of the same being readily guided to the right or left to conform to the sinuosities of the rows of plants.

A represents a beam, to which the draught animals are attached; and B B are two metal sockets, which may be of cast iron, and secured to the beam A, one at each side, by means of screw-bolts C. These sockets B are formed or cast with semicircular recesses at their outer sides to receive the standards D, which are of cylindrical form, and are secured in said recesses by having eyes *a* on the ends of the bolts C, the standards D passing through said eyes, and the former secured snugly in position by screwing up the nuts *b* of the bolts C. The standards D are braced by rods E, having eyes *c* at one end, through which the standards pass, the opposite ends of said rods having screws cut on them and passing through lips or angle plates F, secured to the beam, with nuts *d* on their ends. By this arrangement it will be seen that the standards, and consequently the shovels G, which are attached to their lower ends, may be adjusted higher or lower as desired, and the shovels turned so as to have an oblique position to the right or left according to the direction in which it is desired to cast or throw the dirt, or adjusted so that their face sides will be at right-angles with the beam. H is a caster-wheel, placed at the rear of the beam A, and having its rod, I, extending up through the rear of the beam, and its upper part bent over to a horizontal position, to form a crank for the convenience of turning the caster-wheel. This caster-wheel serves as a gauge for the shovels G, and also admits of the device being readily guided or turned to the right or left, in order to conform to the sinuosities of the rows of plants. This device is exceedingly simple in construction, may be manufactured at a small cost, and manipulated with the greatest facility.

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

1. The securing of the standards D to the beam A, through the medium of the sockets B, and screw-bolts C, provided with eyes *a*, all constructed and arranged substantially in the manner as and for the purpose set forth.
2. The braces E applied to the beam and standards, substantially in the manner as and for the purpose specified.
3. The caster or gauge-wheel H, applied substantially in the manner as and for the purpose set forth.

SILAS M. WHITNEY.

Witnesses:

J. B. BOGGS,

J. R. EDWARDS.