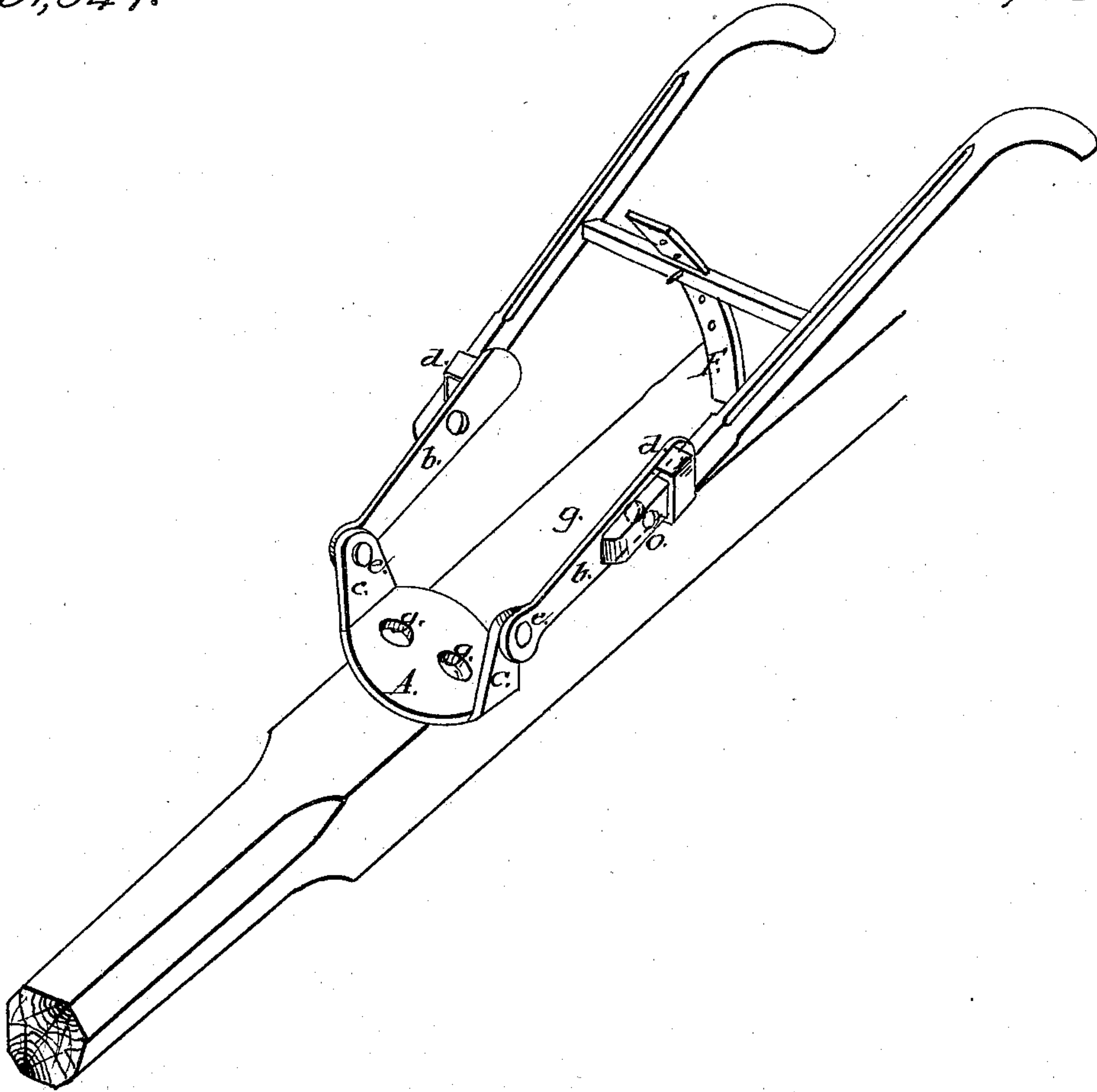


E. S. Huff

Cultivator

N^o 91,847.

Patented Jan. 29, 1869.



Witnesses:
Otto Leipring
Jas. T. Allen

Inventor.
E. S. Huff
By His attorneys
Swettland & Co.

United States Patent Office.

E. S. HUFF, OF ZANESVILLE, OHIO.

Letters Patent No. 91,847, dated June 29, 1869.

IMPROVEMENT IN PLOW-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, E. S. HUFF, of Zanesville, in the county of Muskingum, and State of Ohio, have invented a new and useful Improvement in Flow-Cultivators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and in which—

Figure 1 represents a perspective view of my invention, and

Figure 2, a vertical central section of the same.

The object of this invention is to furnish a suitable means for raising or lowering the handles of a cultivator, thereby adapting it to the stature of the person working it and facilitating the operation of cultivation; and to this end,

My invention consists in the employment of a circular or otherwise-shaped metal plate, provided with openings, through which may be inserted screws for securing it to the centre beam of the cultivator, and formed on its upper sides, with two bars or projections diverging outward from each other, and supplied at their upper ends with arms or pivoted braces, which are designed to be attached to the handles of the cultivator.

In the accompanying drawing—

A represents an oval-shaped metal plate, which is provided with two openings, *a a*, through which are inserted screws entering the centre beam of the cultivator.

One to which it may be adapted, and its practical

workings seen, may be seen by reference to my patent of August 28, 1860, for cultivator.

This plate may be secured also by means of a brace passing around the beam of the cultivator, and its ends projecting up through the openings *a a*, and secured therein by nuts.

At each end of this plate, on the upper side, is formed a bar or projection, *c c*, which is made to diverge outward from its fellow, and supplied at the upper end with an opening.

b b are two arms, which are pivoted to the upper ends of the bars *c c*, by rivets or bars *e e*, the upper ends of the arms *b b* being pivoted to the outer ends of the handles of the cultivator, and made firm by staple *d*.

By means of this arrangement, as already intimated above, the handles of the cultivator can be easily and readily raised or lowered upon the standard F, attached to the beam *g*, which are designated by the red lines, thereby rendering the cultivator manageable by persons of different statures.

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

The employment of the metal plate A, constructed with the bars or projections *c c*, supplied with the pivoted arms *b b*, in combination with the handles of a cultivator, and arranged substantially as and for the purpose set forth.

Witnesses:

W. MISTEN,

D. B. FITZGERALD.

E. S. HUFF.