

F. S. Gregory

Cultivator.

No. 93,530.

Patented Aug. 10, 1869.

Fig. 1.

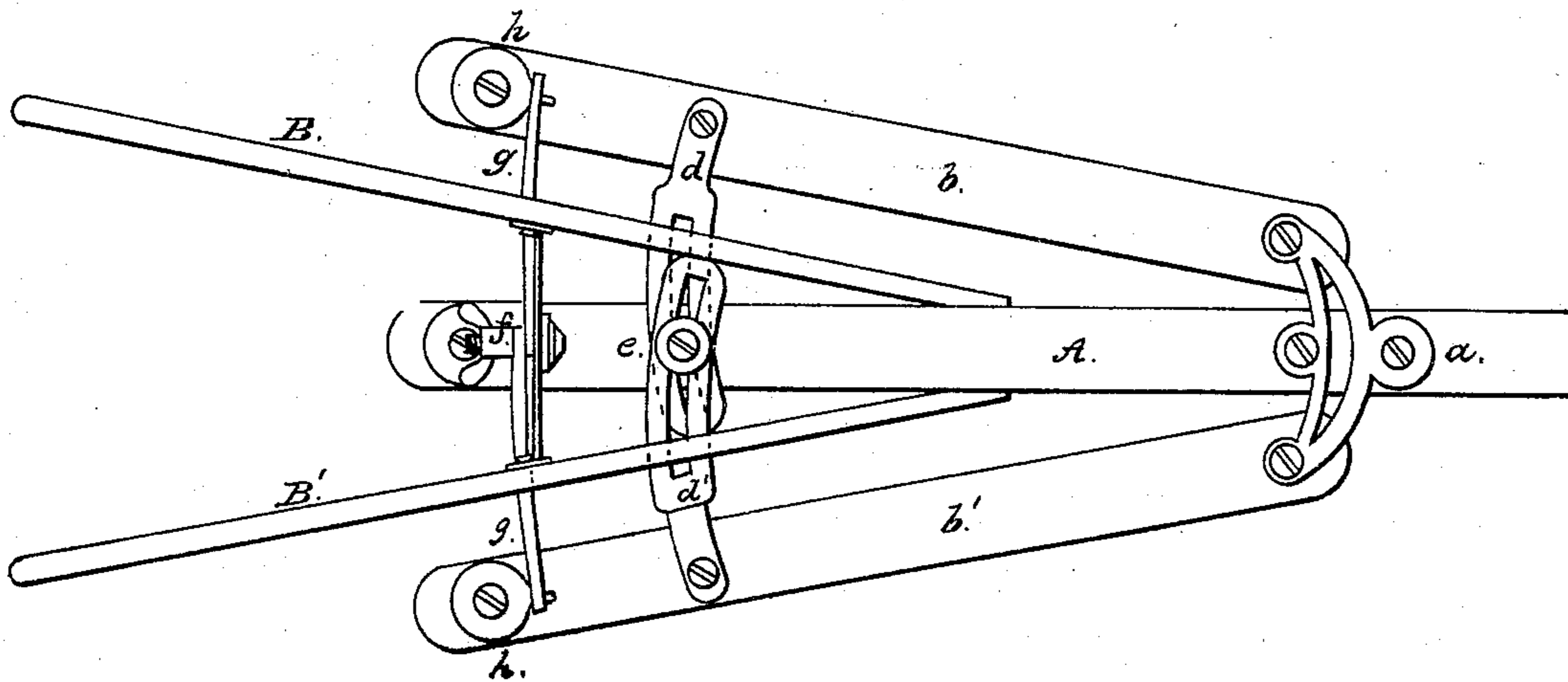
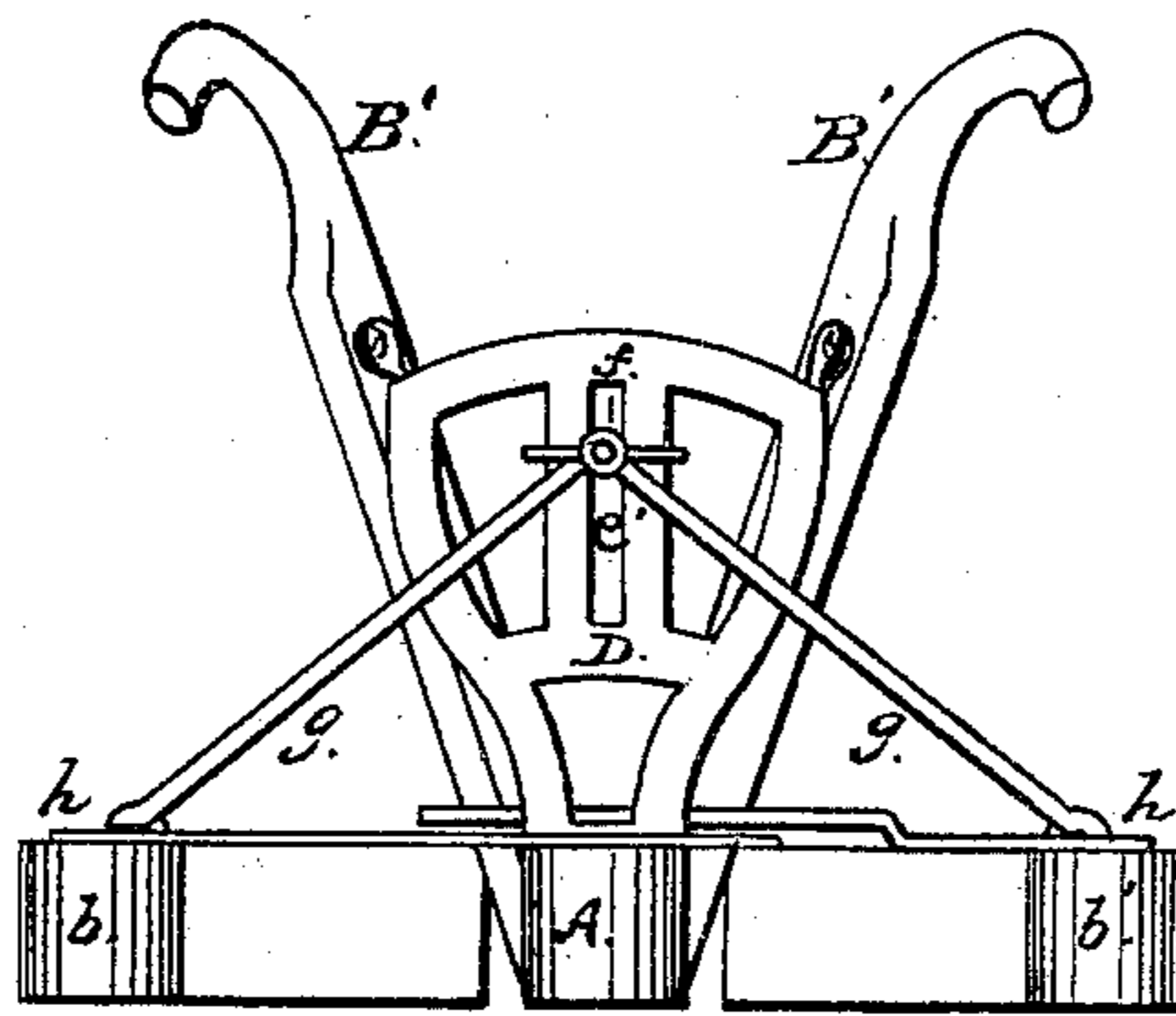


Fig. 2.



Witnesses;
A. North
C. Alvan

Inventor;
F. S. Gregory
Per: J. H. Alexander Atty.

UNITED STATES PATENT OFFICE.

E. S. GREGORY, OF LOCKPORT, NEW YORK.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 93,530, dated August 10, 1869.

To all whom it may concern:

Be it known that I, E. S. GREGORY, of the city of Lockport, county of Niagara, and State of New York, have invented certain new and useful Improvements in Cultivators; and 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, which form a part of this specification, and in which—

Figure 1 represents a plan view, and Figure 2, an end view of my cultivator.

Similar letters of reference indicate like parts in both figures.

The nature of my invention consists in the employment of devices arranged so as to expand or contract the cultivator-arms, substantially in the manner and for the purpose hereinafter described.

To enable others skilled in the art to which my invention appertains, to make and use the same, I will now describe its construction and operation.

In the accompanying drawings—

A represents the standard or main bar of the cultivator-frame, to which are attached the handles B B'.

On the front end of the standard, is secured the metal plate *a*, made as seen in fig. 1, and to each end of which is hinged the front end of the cultivator-arms *b b*.

d represents a metal slotted plate, made as seen in fig. 1, and secured to the rear end of arm *b*.

d' represents a similar slotted plate, secured to the rear end of arm *b'*.

It will be seen that the two plates *dd* overlap each other, and that the slotted part passes over the adjustable screw *e*, secured to the standard A.

D represents a metal plate, made as seen in fig. 2, its lower end secured to the standard A, and the upper to the handles of the cultivator.

This plate is furnished with a slot, *e'*, in its centre, and in this slot is inserted the clamp-screw *f*.

Over the screw *f* is passed one end of the bars *g g*, the other ends of the said bars being passed over the metal pieces *h h*, secured respectively to the arms *b b'*.

The cultivator-teeth are not shown in the drawing, they being no part of my invention.

Having thus described my invention,

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

The slotted metal plate D, constructed as described, in combination with the clamp-screw *f*, and bars *g g*, arranged to operate substantially in the manner and for the purpose specified.

In testimony that I claim the foregoing as my own, I affix my signature, in presence of two witnesses.

E. S. GREGORY.

Witnesses:

JOHN J. WILSON,
HENRY DÜRINGER.