

(No Model.)

H. W. FERGUSON.
CULTIVATOR.

No. 292,639.

Patented Jan. 29, 1884.

Fig. 1.

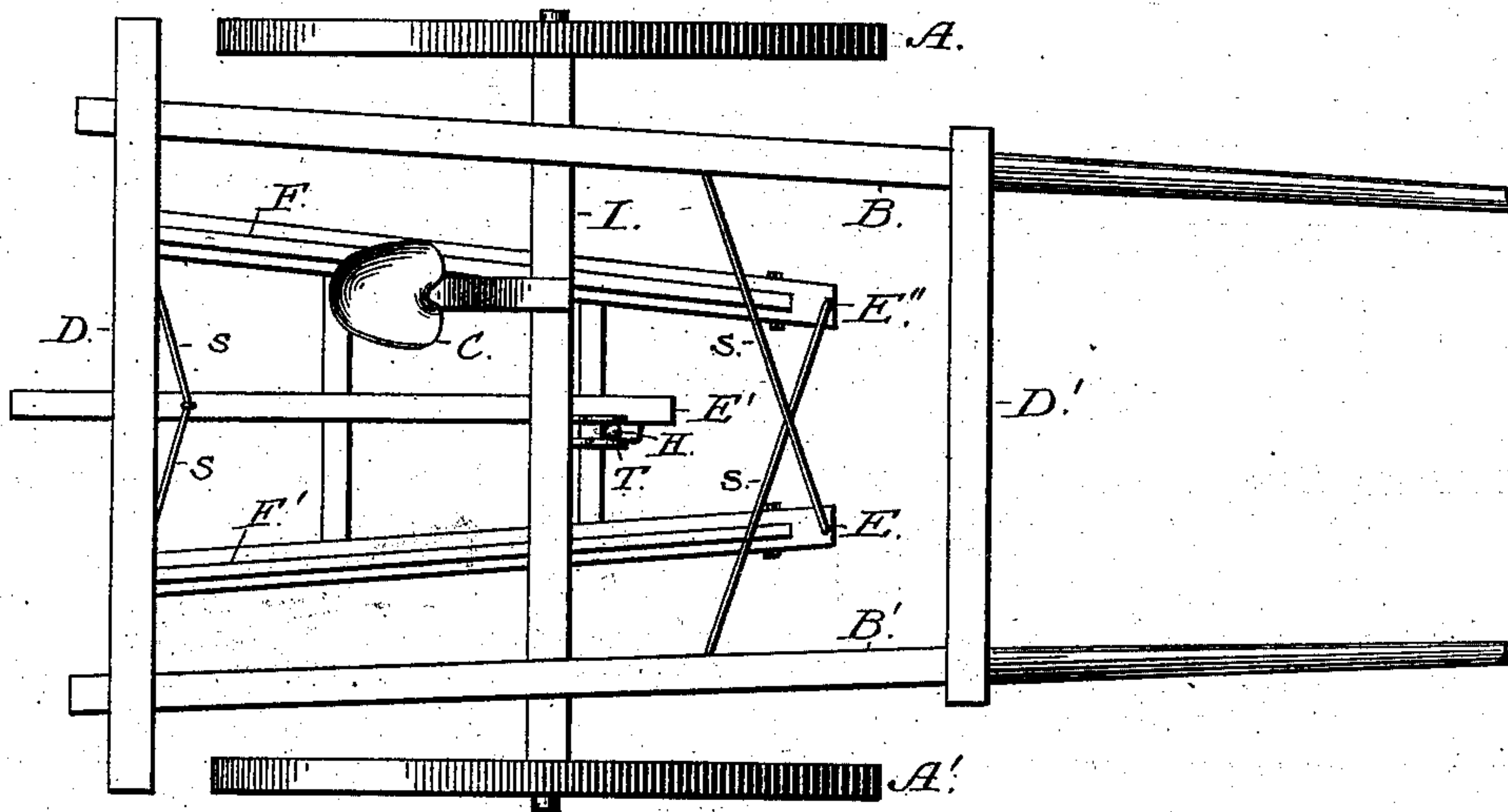
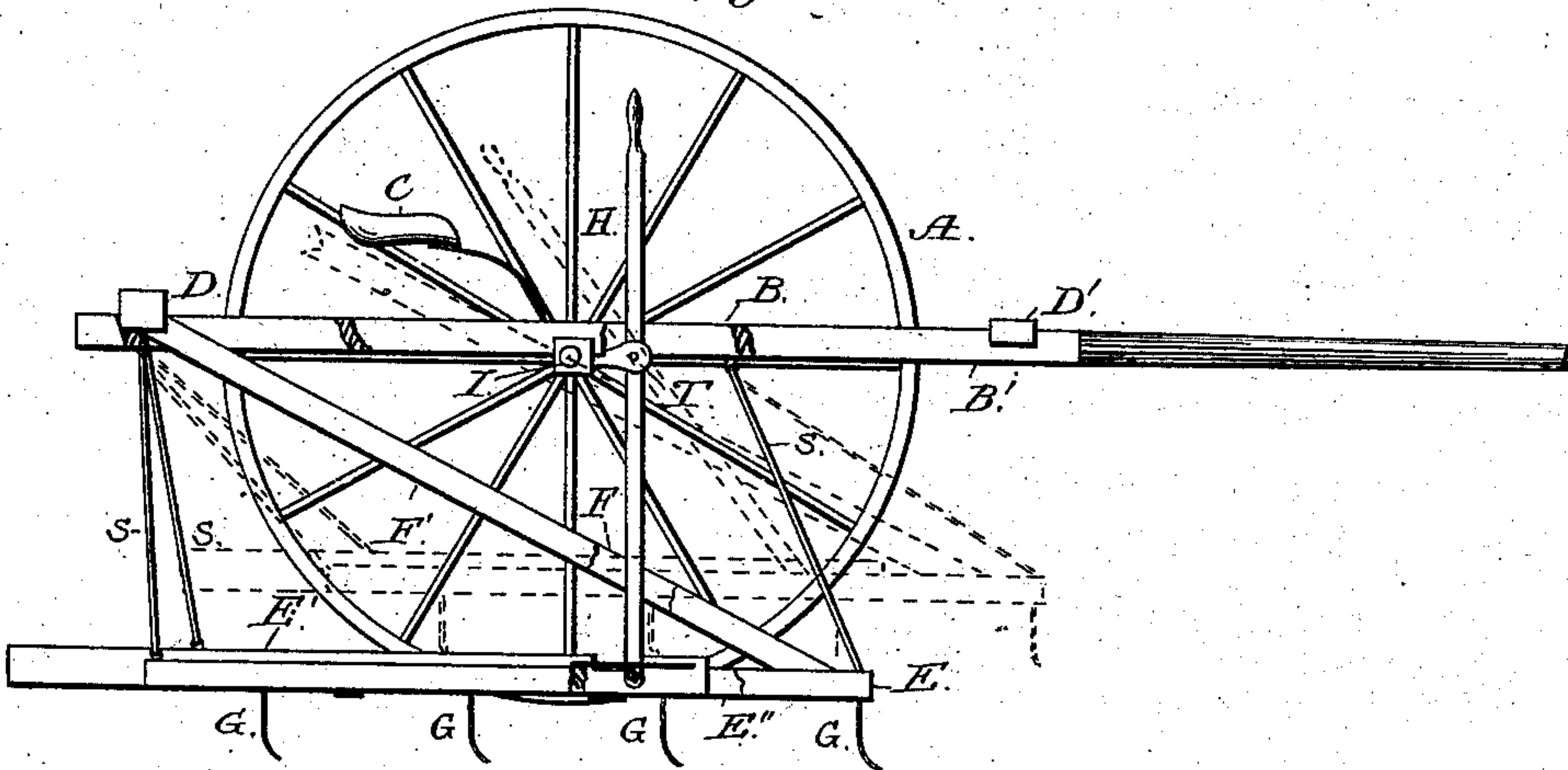


Fig. 2.



Witnesses;

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UNITED STATES PATENT OFFICE.

HARVEY W. FERGUSON, OF NORTH'S MILLS, ASSIGNOR OF ONE-HALF TO
WILLIAM M. DIGHT, OF MERCER, PENNSYLVANIA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 292,639, dated January 29, 1884.

Application filed March 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, HARVEY W. FERGUSON, a citizen of the United States, residing at North's Mills, in the county of Mercer and State of Pennsylvania, have invented a certain new and useful Improvement in Cultivators; and I do 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.

My invention relates to improvements in cultivators; and the following description of my invention, when taken in connection with the annexed drawings, will enable those skilled in the art to fully understand it.

Figure 1 is a plan, and Fig. 2 a side elevation, of my invention.

A A' designate the wheels; I, an axle around which the wheels revolve; B B', shafts fastened to the axle I; D D', cross-bars bolted to the shafts—one in front and the other behind the wheels—and to the front piece is attached a single-tree, to which is attached the horse or motive power.

E E' E'' designate bars of wood placed under the axle horizontally and in the shape of a wedge, so that the front ends approach nearer each other than the other ends. These bars are placed at equal distance from each other, and fastened there by means of bars and bolts.

They are also held in position by means of six iron bars, S, fastened near the ends to the extremities of E E' E'', and the other ends of the bars S fastened to the shafts and piece D.

F F' designate two braces, with one end of each fastened to the front end of the outside bars of wood, E E', and at such an angle that the other end touches or braces on the front side of D, when the vehicle is in use, and thus moves with the wheels.

G designates one of several shovels fastened to E E' E''.

H is a lever, having a fulcrum, T, with one end fastened to the bar E'. By putting the hand on the other end of H and pressing backward, it raises up the bars E E' E'', so that it can pass over any obstacle.

C designates a seat fastened to axle I.

Having described my invention, I claim—

The combination, with the main frame and axle, of cultivator-frame E E' E'', the suspending rods S, the lever H, and the inclined braces F F', rigidly screwed to the front end of the cultivator-frame, and arranged to bear against the rear cross-bar and take the strain off the shovels when at work, substantially as shown and described.

HARVEY W. FERGUSON.

Attest:

W. M. DIGHT,

S. C. SIMONTON, Jr.