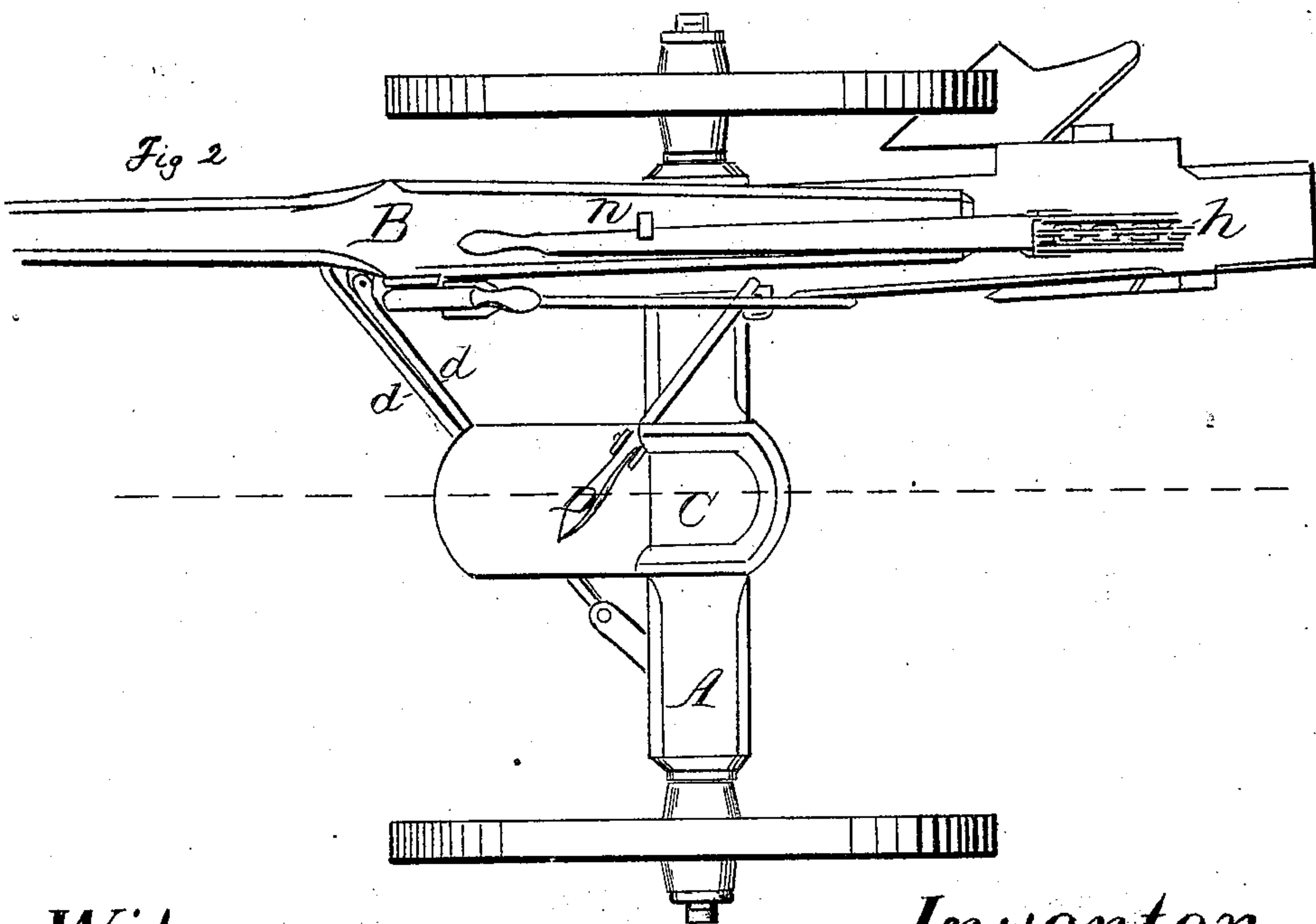
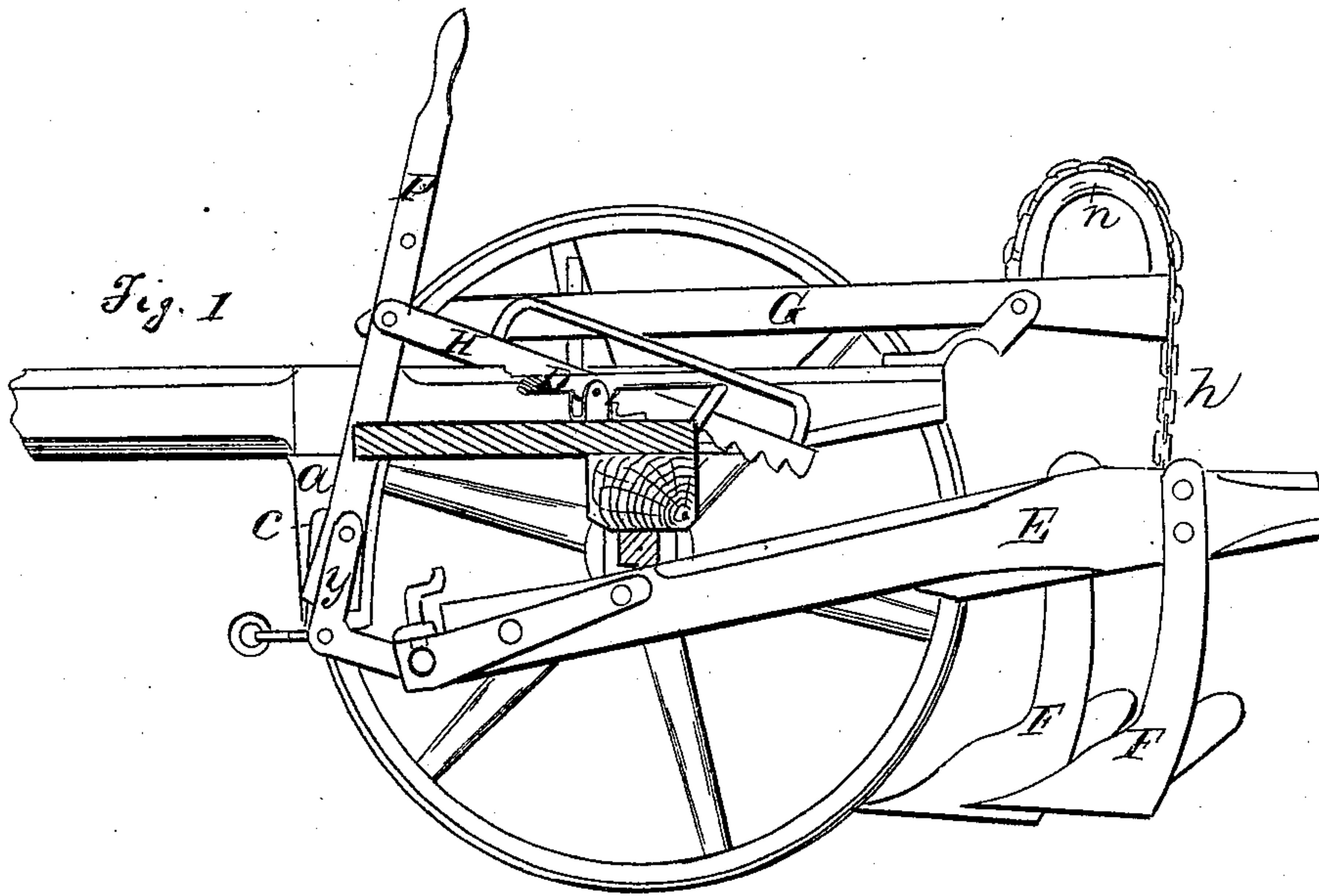


*C. F. Gay,
Wheel Flow.*

No. 93077.

Patented July 27, 1869.



Witnesses
E. W. Anderson
James P. Quors

Inventor
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attys.

UNITED STATES PATENT OFFICE.

CHARLES F. GAY, OF ALBANY, OREGON.

IMPROVEMENT IN GANG-PLOWS.

Specification forming part of Letters Patent No. 93,077, dated July 27, 1869.

To all whom it may concern:

Be it known that I, CHARLES F. GAY, of Albany, in the county of Linn and State of Oregon, have invented a new and valuable Improvement in Gang-Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal sectional view of my device. Fig. 2 is a top plan view of the same.

My invention relates to cultivators; and it consists, mainly, in a novel arrangement of devices intended to serve as efficient means for the purpose named.

The letter A of the drawings represents the axle of a sulky-cultivator, and letter B the neap placed upon one end thereof, inside the wheel.

Letter C represents the driver's seat, and letter D a treadle-lever pivoted at the foot thereof, as shown.

The letter E represents the plow-beam suspended below the axle, and letters F the plows attached thereto.

My means for suspending the plow-beam to the axle are as follows, namely: I attach an arm, *a*, to the lower side of the neap, and affix to the lower end of said arm a staple, *c*, which staple is pivoted to the front end of the plow-beam. I also attach braces *d* to the front of the axle, by suitable pivots, and connect their opposite ends one with the plow-beam and the other with a perforated bar connected with the staple *c*. I further attach a chain, *h*, to

the rear end of the plow-beam, and after passing the same over the curved and grooved arm *n* connect its opposite end with the lever G in the manner shown. The lever G is pivoted to the rear end of the neap, and is held down upon the same, when desirable, by being passed under the hook *n*.

The letter H represents a ratchet-bar working upon a suitable shoulder on the axle, and is raised at will by means of the treadle-lever D, above mentioned. It is also actuated by means of the lever P, next described. The lever P is pivoted to the front end of ratchet-bar H, as shown, and it has a bent attachment, *y*, at its lower end, which is pivoted to the front end of the plow-beam.

To operate my device for raising the plows, I depress the lever G and fasten it under its hook. To lower the plows, so as to make them cut deep furrows, I depress the lever P. The treadle D serves to release the teeth on the ratchet H from their shoulder when desirable so to do.

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

The cultivator herein described, having beam A, rods *d*, levers D, G, and P, ratchet H, chain *h*, curved arm *n*, and attachment *y*, constructed and arranged substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES F. GAY.

Witnesses:

JAMES ELKINS,
E. F. RUSSELL.