A. T. SHERWOOD.

Improvement in Cultivators.

No. 131,909. Patented Oct. 1, 1872.

Fig. 1.

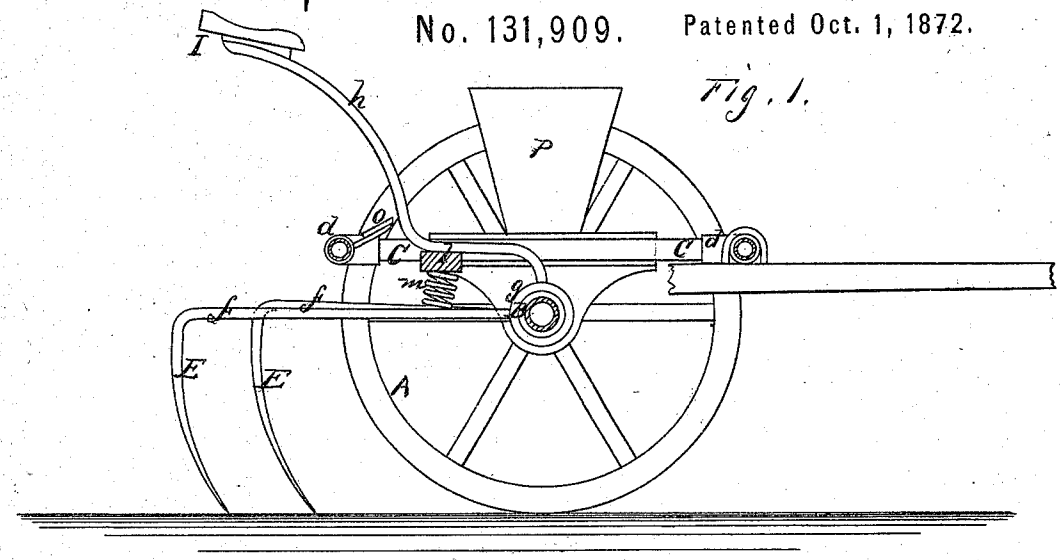
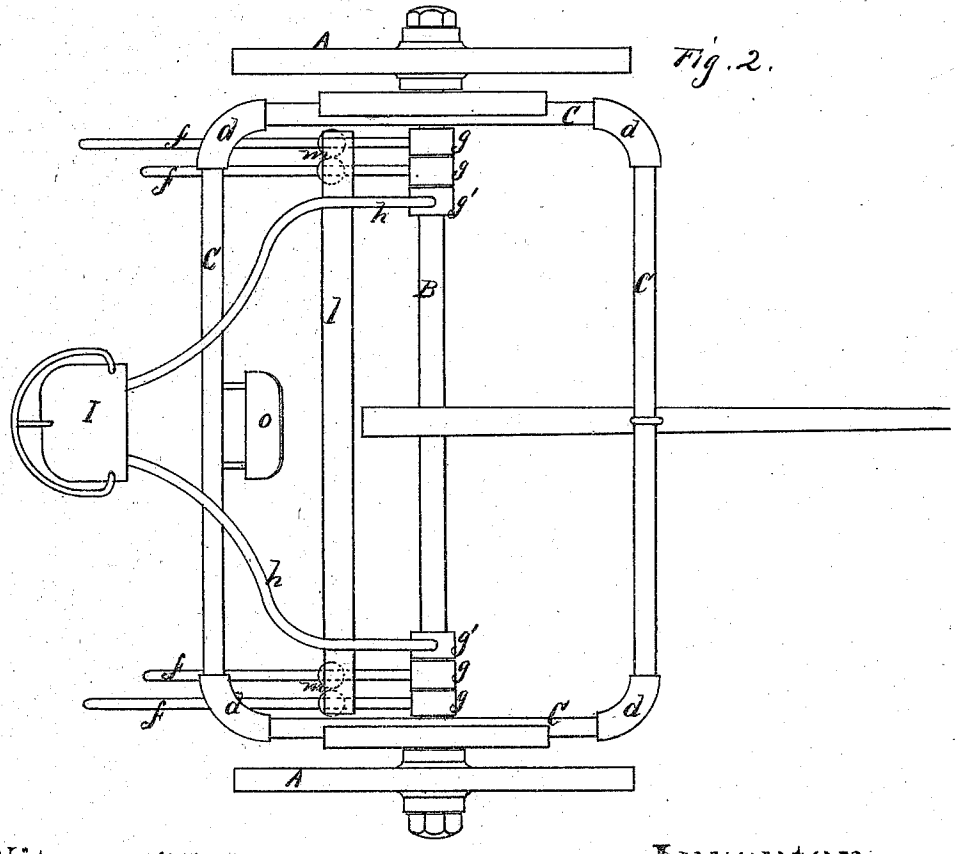


Fig. 2.



Witnesses

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AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

ANDREW T. SHERWOOD, OF AMADOR, CALIFORNIA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **131,909**, dated October 1, 1872.

To all whom it may concern:

Be it known that I, ANDREW T. SHERWOOD, of Amador, county of Amador, State of California, have invented Improvements in Cultivator and Seed-Sower; and I do hereby declare the following description and accompanying drawing are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

My invention consists, first, in constructing the frame-work of a field-cultivator or seed-sower of hollow metal tubes, for the purpose of obtaining durability and strength combined with the required degree of lightness; and secondly, in a novel arrangement by which the weight of the driver is employed for forcing the cultivator-teeth or plows into the ground.

In order to more fully illustrate and explain my invention reference is had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a vertical section of my machine, and Fig. 2 is a plan.

A represents the bearing-wheels of the machine mounted upon the axle B. The frame C is made of hollow metal tubes, the corners being united by an elbow, *d*, in the usual manner of uniting tubing in forming a bend. This provides a strong and light frame which will be very durable. The cultivators E E are attached to the axle B of the machine in the following manner: The beams *f* of the cultivators have each a sleeve, *g*, at their end, and these sleeves are slipped upon the axle so that they will be close together, thus allowing the cultivators to rise and fall independent of each other. The standards *h*, which support the driver's seat I, have also a sleeve, *g'*, secured to their lower ends, and these sleeves are also slipped upon the axle B, taking place of one of the sleeves *g*. These standards are curved backward a short distance, where they have a timber, *l*, secured beneath them. They are then carried upward to the seat, as shown. A spiral or other spring, *m*, is secured to each of the beams *f* directly below the timber *l*, so that when the driver sits upon the seat his weight will press downward upon the springs and thus serve to force the cultivators into the ground. A foot-support, O, is secured to the tubular frame C in the proper position to allow the driver to place his feet upon it, so that he can, at pleasure, relieve the cultivators of his weight by transferring his weight to the step. P is a hopper, such as is used upon ordinary seed-sowers for sowing seed. This hopper can be removed, if desired, when it is desired to employ the machine as a cultivator, and when it is desired to use it as a seed-sower the cultivators can be removed by slipping the sleeves off of the axle, thus converting the machine in a short time into a proper condition to use in either case.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The loosely-hinged cultivators E E, in combination with the seat I, timber *l*, and springs *m*, so arranged that the driver's weight can be applied to force the cultivators into the ground, substantially as described.

In witness whereof I hereunto set my hand and seal.

ANDREW T. SHERWOOD. [L. S.]

Witnesses:

THOS. J. BURKE,

W. W. KIRKLAND.