(No Model.)

A. GUMP.

CULTIVATOR.

No. 252,837. Patented Jan. 24, 1882.

Fig. 1.

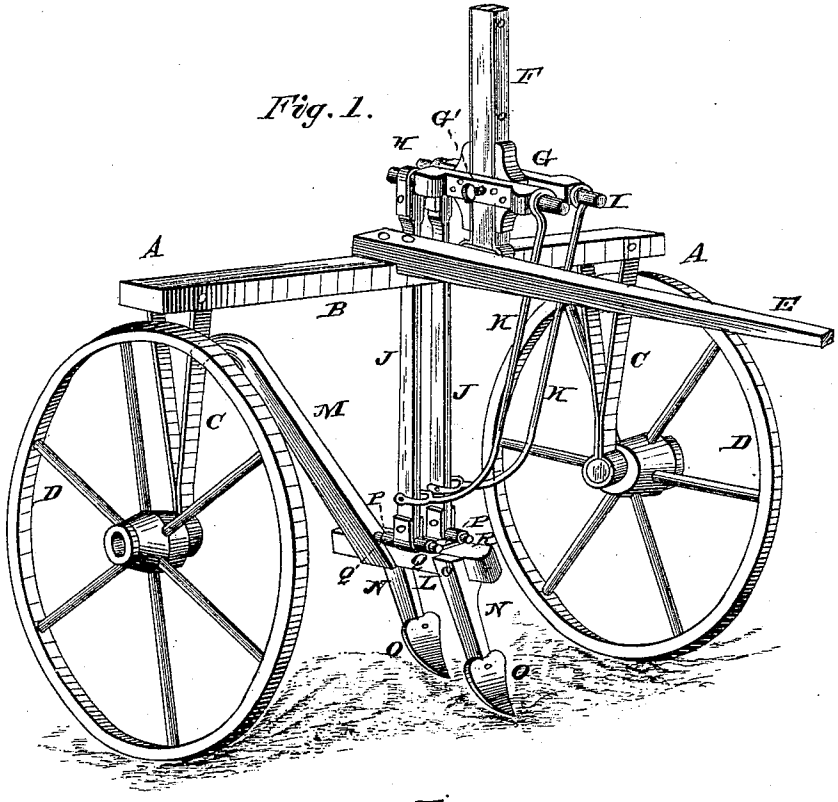
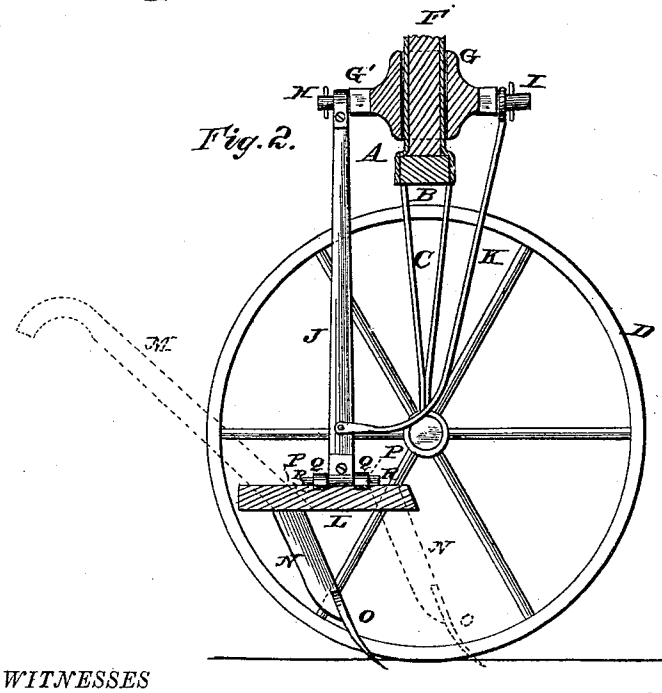


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

ALEXANDER GUMP, OF FLETCHER, OHIO, ASSIGNOR OF ONE-HALF TO JACOB GUMP, OF SAME PLACE.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 252,837, dated January 24, 1882.

Application filed October 20, 1881. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER GUMP, of Fletcher, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view, and Fig. 2 is a vertical sectional view.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to cultivators; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A represents the frame of my improved cultivator, which consists simply of a beam, B, provided at the ends with downward-projecting brackets C, having bearings for the spindles of the transporting-wheels D D. A tongue, E, is secured to the frame-beam B, as shown.

F is an upright or standard secured firmly to the beam B. Upon said upright is fitted a frame or slide, G, the side pieces of which, G′, project at the front and rear ends, so as to form brackets or spindles H I. Upon the rear spindles, H, is hinged a pair of connecting rods or arms, J J.

K K are a pair of braces hinged upon the front brackets, I, and having their lower ends attached to the arms J, near the lower ends of the latter.

L is the cultivator-beam, which is provided with the handle (or handles) M and standards N, carrying the blades O, all of which may be of any suitable well-known construction. Secured upon the upper side of the cultivator-beam are two parallel transverse plates, P P, the ends of which are provided with ears Q, between which the lower ends of the arms or connecting-rods J J are hinged by means of pins or bolts R.

The operation and advantages of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The cultivator, being attached to the sliding frame G, which is vertically adjustable, as above described, may be raised or lifted out of the ground, when required, and adjusted at any desired elevation, any suitable means—such as an ordinary thumb-screw—being employed for retaining the frame G in position. The cultivator-beam, being connected to said frame by the hinged arms and braces J K, may be swung to either side, when required, without tilting the blades or interfering with or interrupting the operation.

The construction of this machine is simple and inexpensive, and it may be easily operated.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, with a suitable transporting-frame, of the vertically-adjustable frame G, having brackets H, the rods J, hinged upon said brackets, and the cultivator-beam hinged between the lower ends of said rods, substantially as set forth.

2. The combination of the frame G, having brackets H I, the arms J, hinged upon brackets H, the rods or braces K, hinged upon brackets I and connected to arms J, and the cultivator-beam hinged between the lower ends of arms J, substantially as set forth.

3. The combination of the frame-beam B, having upright F, the sliding frame G, having brackets H I, the arms J, the braces K, and the cultivator hinged between the lower ends of the arms J, substantially as herein described, for the purpose shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ALEXANDER GUMP.

Witnesses:
J. A. DOVY,
M. B. EARNHART.