

912,870.

J. T. MILLER.  
CULTIVATOR.  
APPLICATION FILED OCT. 27, 1908.

Patented Feb. 16, 1909.

Fig. 1

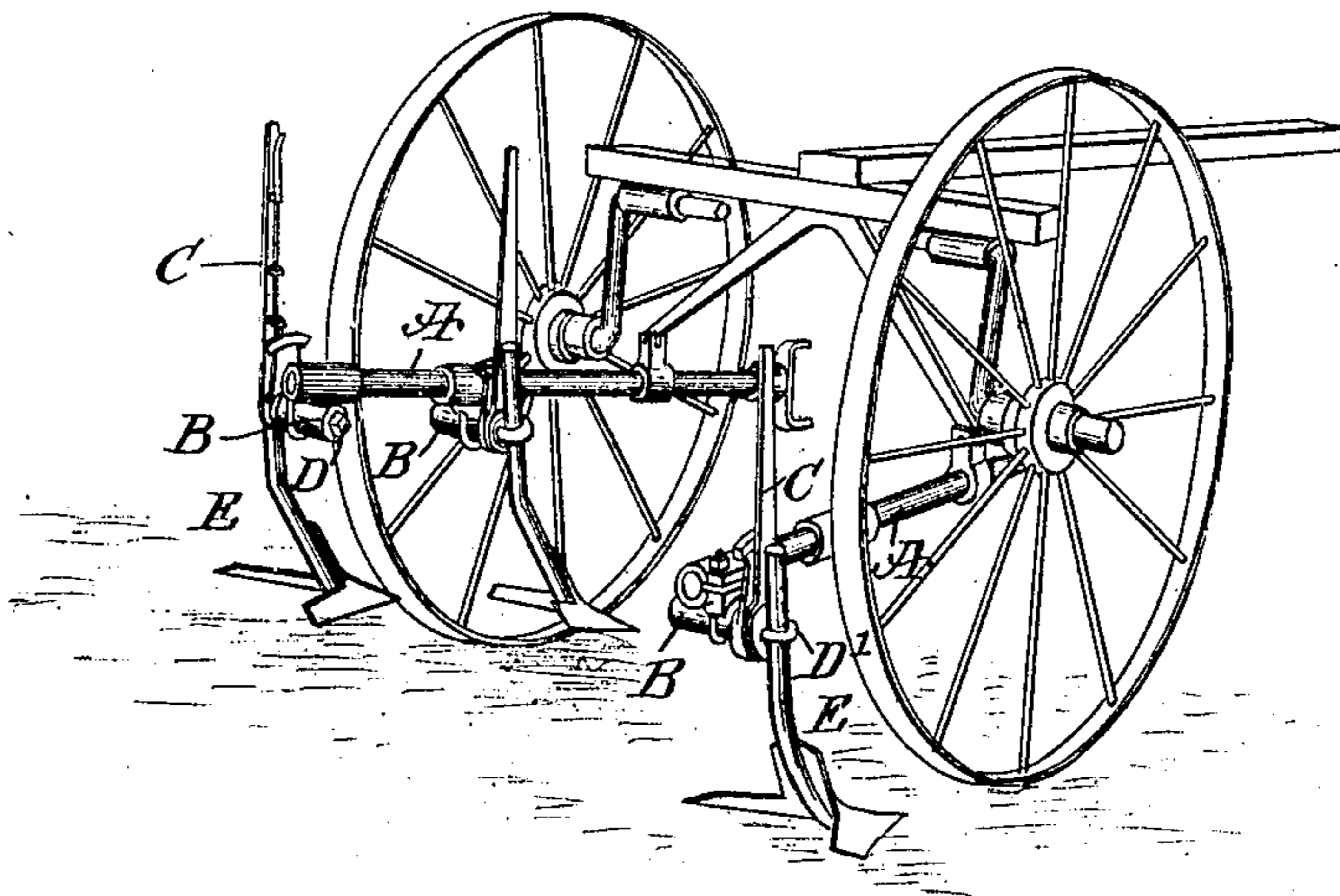


Fig. 2

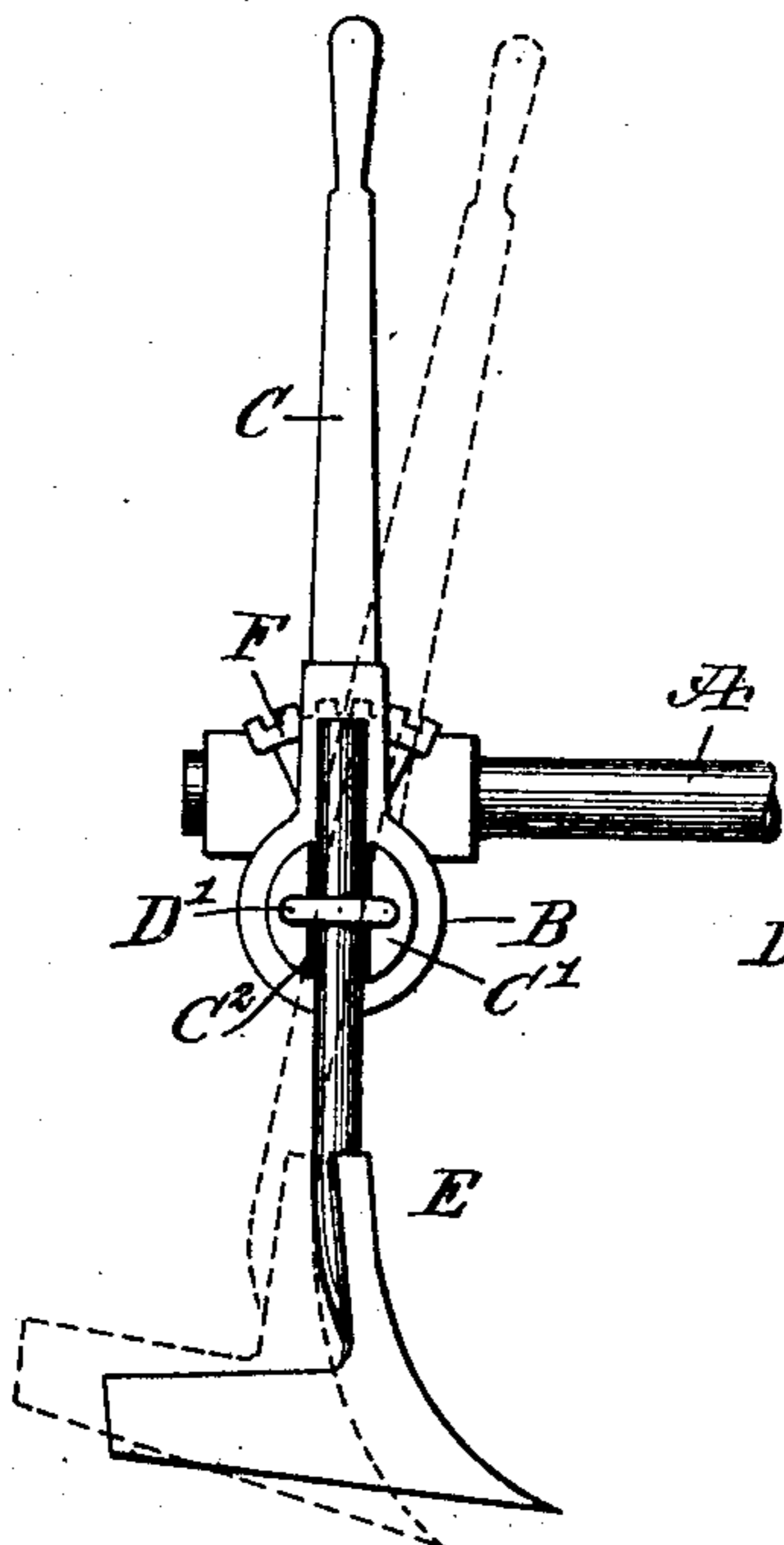


Fig. 3

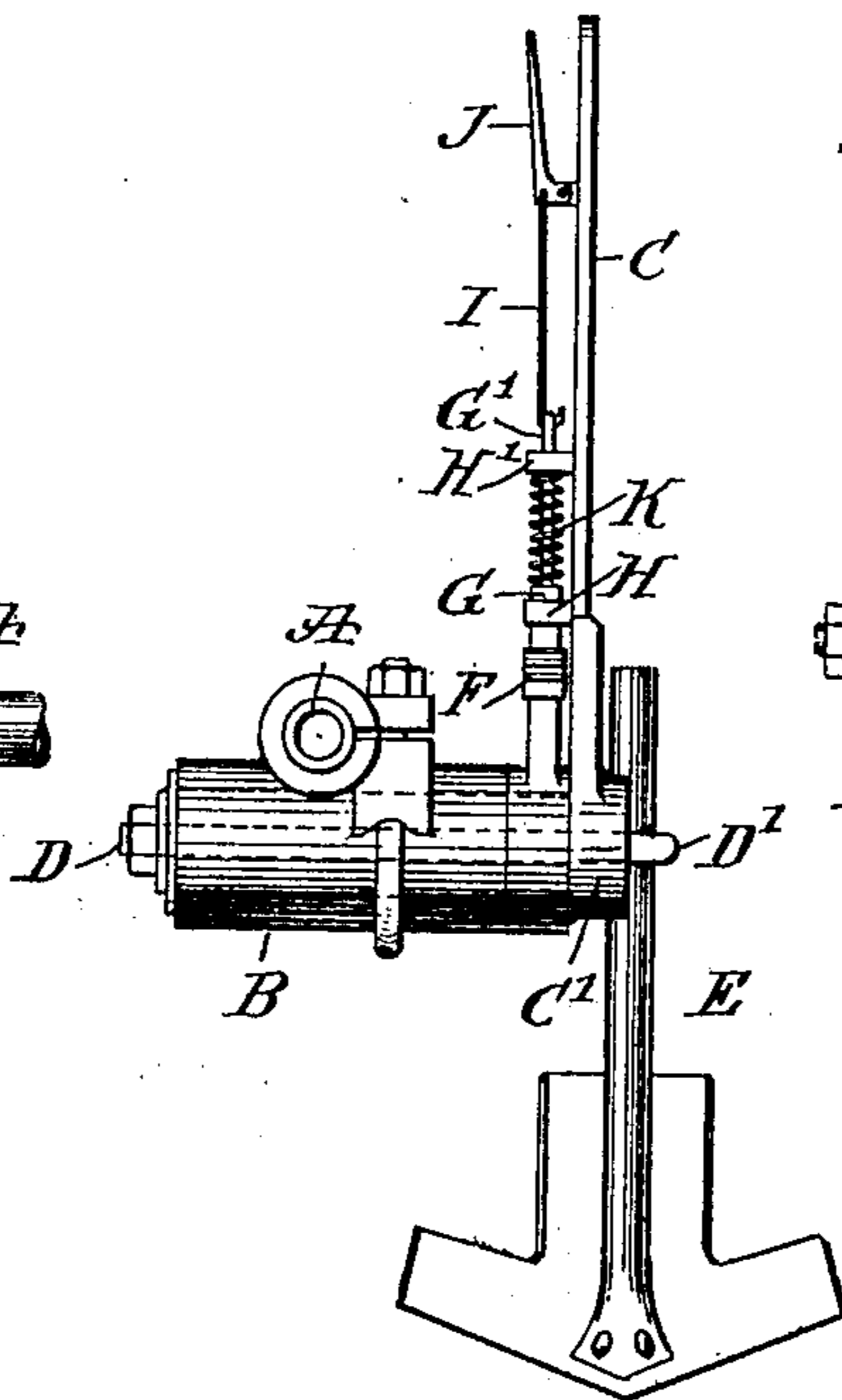
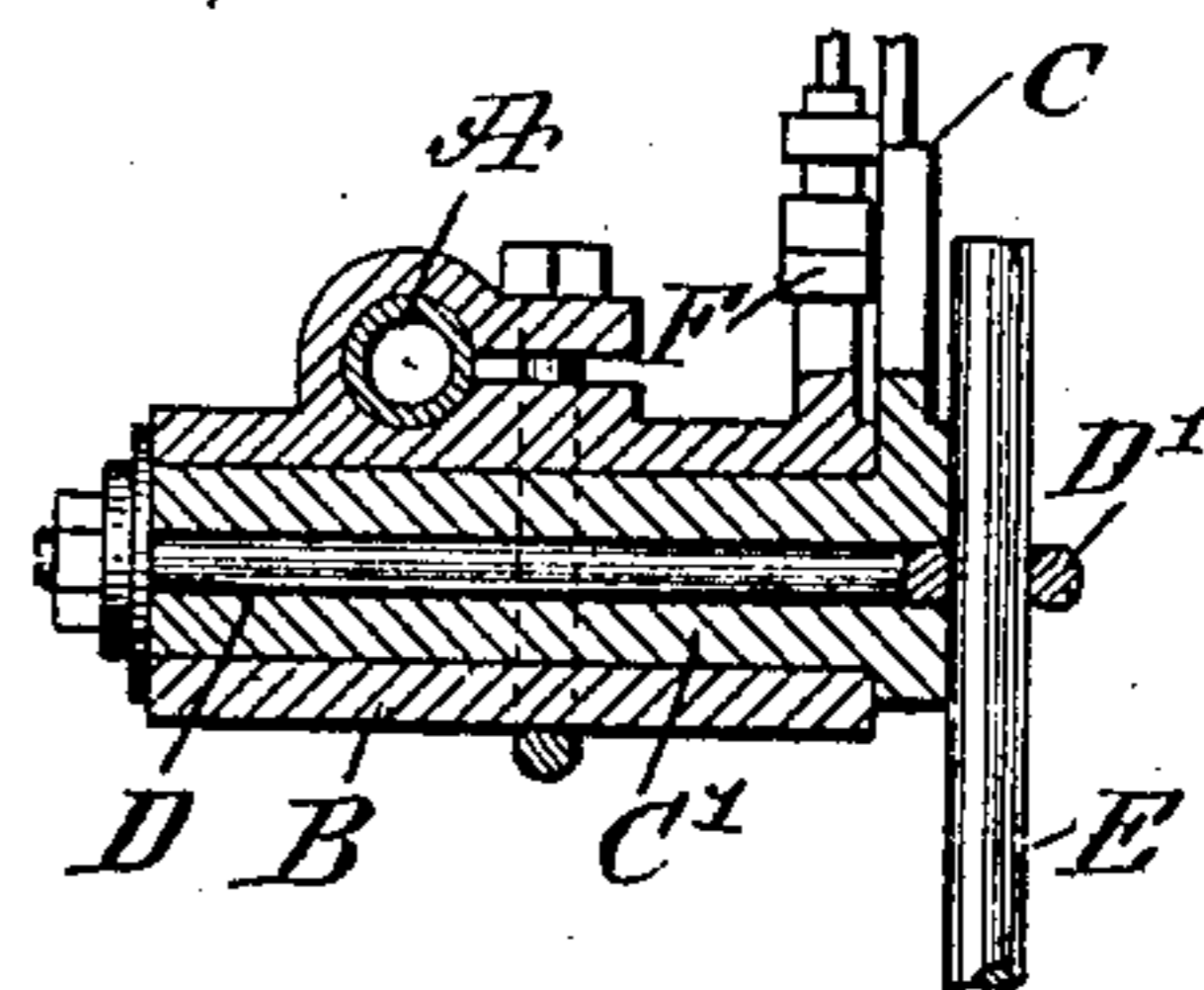


Fig. 4



WITNESSES  
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# UNITED STATES PATENT OFFICE.

JOHN T. MILLER, OF WEST, TEXAS.

CULTIVATOR.

No. 912,870.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed October 27, 1908. Serial No. 459,673.

*To all whom it may concern:*

Be it known that I, JOHN T. MILLER, a citizen of the United States, and a resident of West, in the county of McLennan and State of Texas, have invented new and useful Improvements in Cultivators, of which the following is a full, clear, and exact description.

The object of the invention is to provide certain new and useful improvements in cultivators, whereby the plows can be quickly and conveniently set to any desired pitch for deep or shallow plowing, and without requiring the loosening of bolts or like cumbersome manipulations.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improved cultivator, parts being omitted; Fig. 2 is an enlarged side elevation of one of the plows, and the means for holding and setting the plow to a desired pitch; Fig. 3 is a rear end elevation of the same; and Fig. 4 is a transverse section of the same.

To each of the plow beams A of the cultivator is clipped or otherwise secured, a transversely-extending bearing B, in which is mounted to turn the hub C' of a hand lever C, under the control of the operator for turning the hub C' in the bearing B. An eye bolt D extends through the hub C' and its eye D' engages the standard of the plow E, to clamp the standard to the end of the hub C', the said hub end being preferably provided with a groove C<sup>2</sup> for receiving the said standard E. Now when the operator moves the hand lever C forward or backward, a corresponding turning motion is given to the hub C', and as the plow E is secured to the hub C', it turns with the latter and thus the pitch of the plow is correspondingly changed for deeper or shallower plowing.

In order to lock the hand lever C and consequently the plow E in the adjusted position, the following arrangement is made: On the top of the bearing B is formed or secured a notched segment F engaged by a

bolt G, mounted to slide in a bearing H on the hand lever C. The bolt G has its shank G' mounted to slide in a bearing H' also held on the hand lever C, and the said shank G' is connected by a link I with a small locking lever J, fulcrumed on the hand lever C and under the control of the operator having hold of the hand lever C. A spring K coiled on the shank G' presses the bolt G, to normally hold the bolt in engagement with one of the notches of the segment F, to lock the hand lever C in place. When the operator desires to change the position of the hand lever C for setting the plow E to a desired pitch, he takes hold of the hand lever C and presses the locking lever J, so as to withdraw the bolt G from the notched segment F, thus unlocking the hand lever C, which can now be moved forward or backward by the operator until the plow E assumes the desired position. When this takes place the operator releases the locking lever so that the spring K forces the bolt G into engagement with one of the notches of the segment F, thereby locking the lever C and the plow E in the adjusted position. From the foregoing it will be seen that the position of the plow E can be quickly and conveniently changed by the operator without requiring the loosening of bolts, etc.

The device is very simple and durable in construction, is composed of comparatively few parts, not liable easily to get out of order.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A cultivator having a plow beam, a plow, a bearing secured to the plow beam, a hand lever having a hub mounted to turn in the said bearing, means for locking the said hand lever to the said bearing, and means for securing the standard of the plow to the said hub to turn with the latter on moving the said hand lever.

2. A cultivator having a fastening for the plow, comprising a bearing fixed on the plow beam, a notched segment integral on the said bearing, a hand lever having a hub mounted to turn in the said bearing, an eye bolt in the said hub and engaging the plow standard for securing the plow in place on the hub, a locking bolt engaging the said notched segment, and means on the said hand lever for moving the said bolt.

3. A cultivator provided with a plow beam, a plow, a bearing adjustably secured to the said plow beam and provided with a notched segment, a hand lever having a hub  
5 mounted to turn in the said bearing, a bolt held to slide on the said hand lever and engaging the said notched segment, means on the hand lever for moving the said bolt, and an eye bolt held on the said hub and engag-

ing the standard of the said plow for clamp- 10  
ing the standard against the said hub.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN T. MILLER.

Witnesses:

THOS. D. McNATT,  
WALTER L. DUGGER.