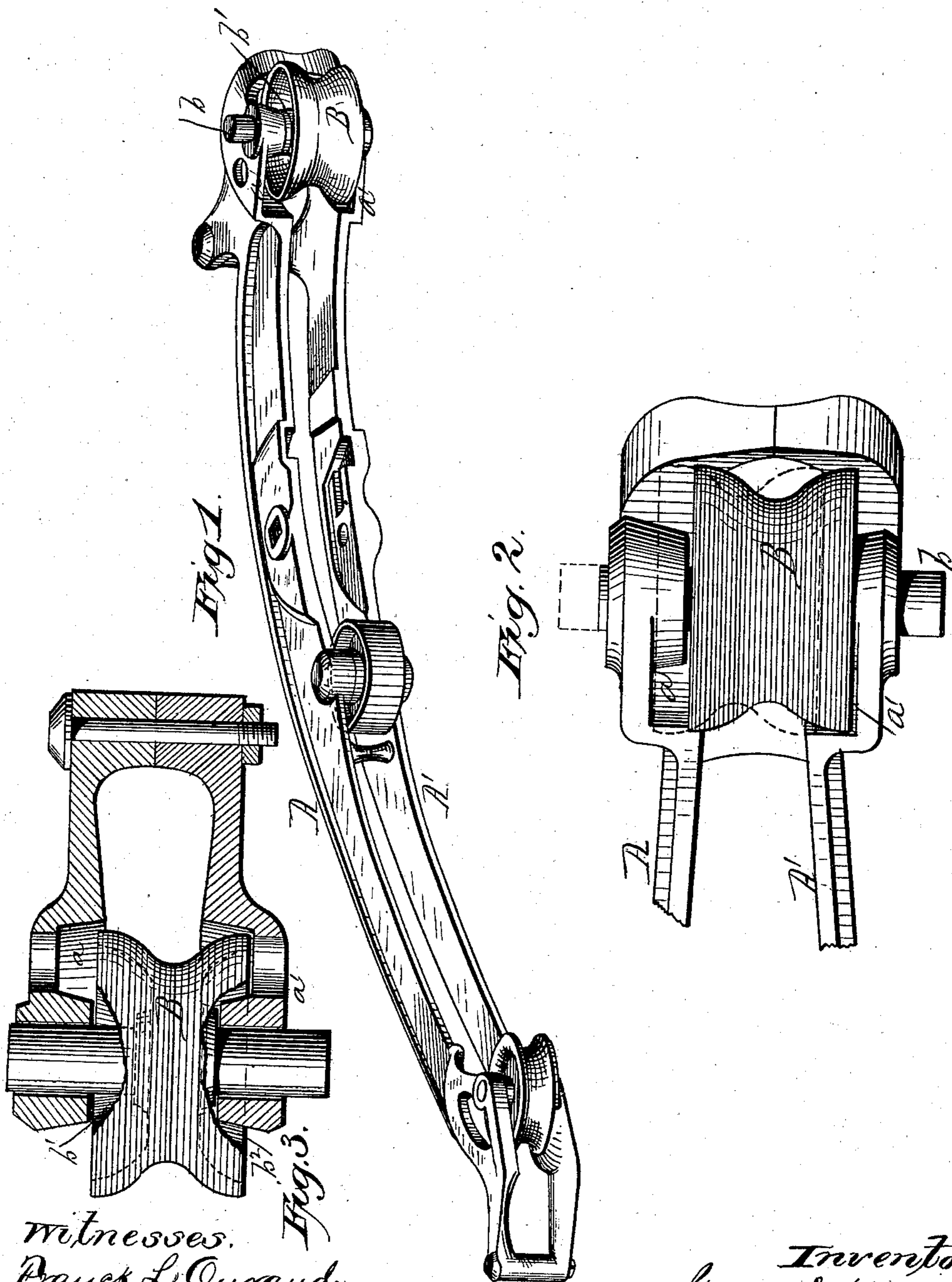


(Model.)

G. D. HAWORTH.  
Check Line Guide for Corn Planters.

No. 241,358.

Patented May 10, 1881.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

GEORGE D. HAWORTH, OF DECATUR, ILLINOIS.

## CHECK-LINE GUIDE FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 241,358, dated May 10, 1881.

Application filed March 11, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, GEORGE D. HAWORTH, of Decatur, county of Macon, State of Illinois, have invented certain new and useful Improvements in Check-Line Guides for Corn-Planters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

10 Figure 1 is a perspective view of my improved check-line guide. Fig. 2 is a front elevation of one end of the guide or pivoted pulley-holder enlarged, showing the arrangement of the sliding sheave, and Fig. 3 represents a vertical  
15 section through Fig. 2.

My invention relates to an improvement upon the pulley-holder or check-line guide described in my patent of October 29, 1878, No. 209,477; and it consists in a novel construction of the  
20 inner end of said holder adjacent to the vibrating arm or fork which actuates the dropping mechanism, whereby the pulley mounted in said end is allowed an endwise movement to accommodate the varying relation of the check-  
25 line to said end consequent upon the vibration of said fork or arm, as hereinafter explained.

The pulley-holder constituting the check-line guide applied to the ends of the main frame-bar of the check-row attachment is similar in its general construction to that described in my former patent referred to, and may be applied as therein described, or in any convenient manner; but the plates or parallel bars A A', between which the guide-pulleys are mounted at their inner ends, have offsets formed in them at *a a'*, increasing the space between them where they cover the grooved guiding-pulley B in such manner as to permit an endwise movement of the elongated shaft *b* of said  
35 pulley or sheave in its bearings in said bars for varying the position of said pulley, as indicated by the dotted lines, Fig. 2—that is to

say, the socket formed in and between the bars A A' for the reception of the sheave adjacent to the vibrating arm or fork over which the  
45 check-line actuating the seeding devices passes is widened to permit lateral play of the pulley relative to said pulley-frame bars to accommodate the varying relation of the check-line thereto. The sheave, by preference, is made  
50 with concave sides, as shown at *b' b''*, so that the bearings for its shaft *b* may project within the plane of said sides, and thus bring the supports of the shaft *b* as near as practicable to the sheave, while permitting the desired move-  
55 ment of the sheave relative thereto.

By this construction the sheave is allowed to slide up and down to accommodate the varying relation of the cord to the inner end of the pulley-holder, due to the movement or vi-  
60 bration in the arc of a circle of the fork or arm actuating the seeding devices and the slipping of the cord from side to side, and the consequent friction of the cord upon the sides of the pulley-holder is obviated and greater freedom  
65 and ease of movement of the check-line secured, as the pulley which is designed to obviate friction is permitted to freely accommodate itself to the movements of said line or cord.

Having now described my invention, I  
70 claim—

1. The pulley-holder forming the check-line guide, provided with the expanded socket for the sheave at its inner end, for permitting an endwise movement of said pulley, substantially  
75 as and for the purpose set forth.

2. The pulley B, in combination with the bars A A', provided with the expanded socket, permitting an endwise movement of said pulley, substantially as described.

GEORGE D. HAWORTH.

Witnesses:

THEO. COLEMAN,  
W. W. KERR.