

(No Model.)

R. BOYD.
CORN PLANTER.

No. 558,768.

Patented Apr. 21, 1896.

Fig. 1.

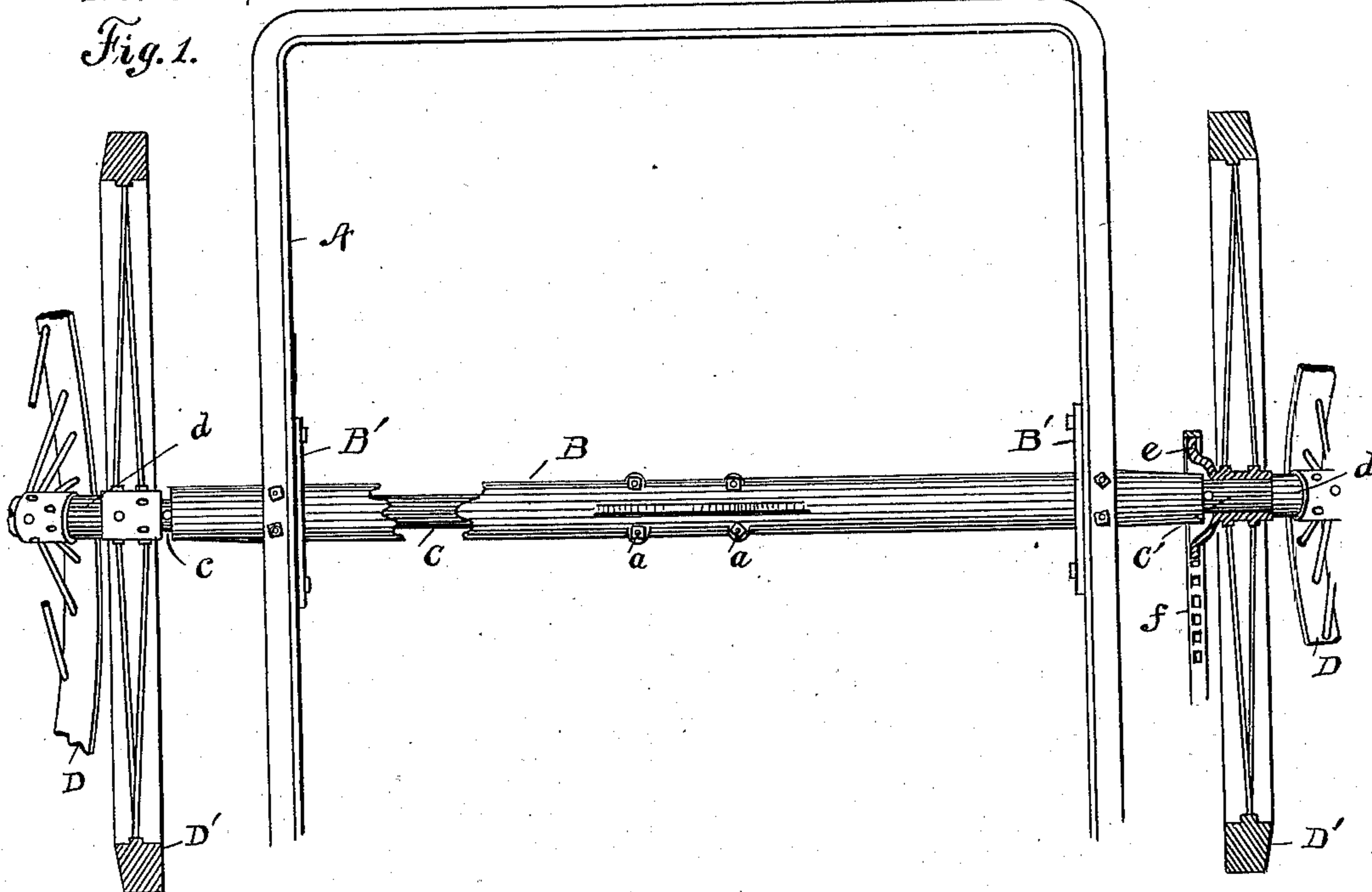


Fig. 2.

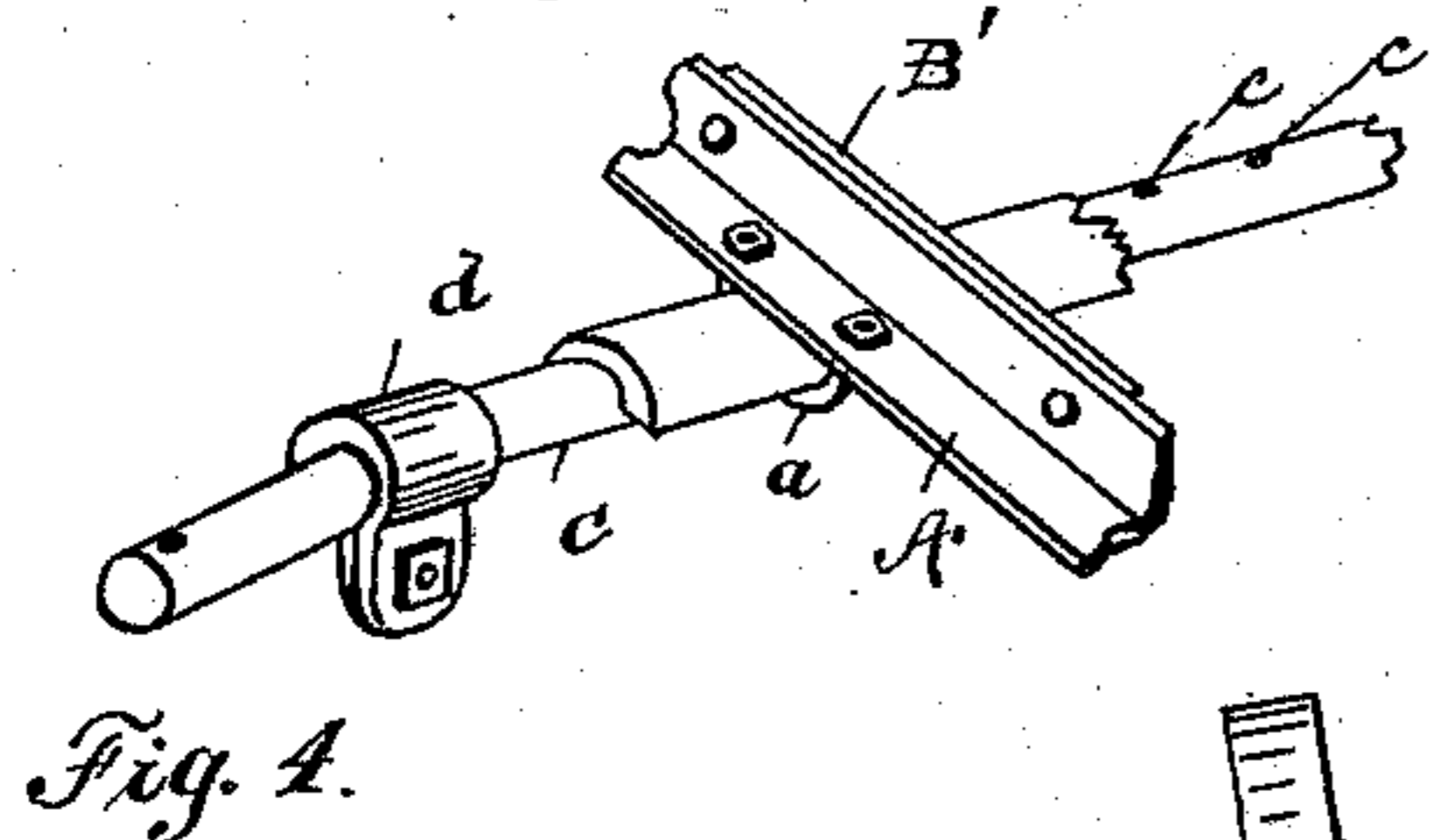
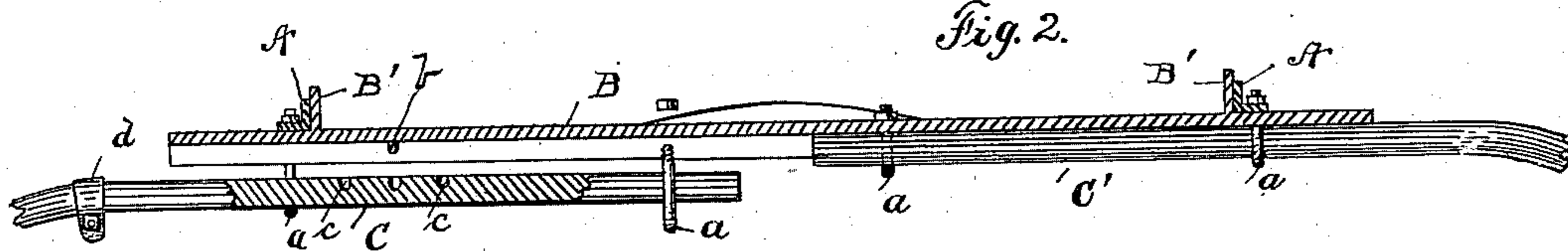


Fig. 4.

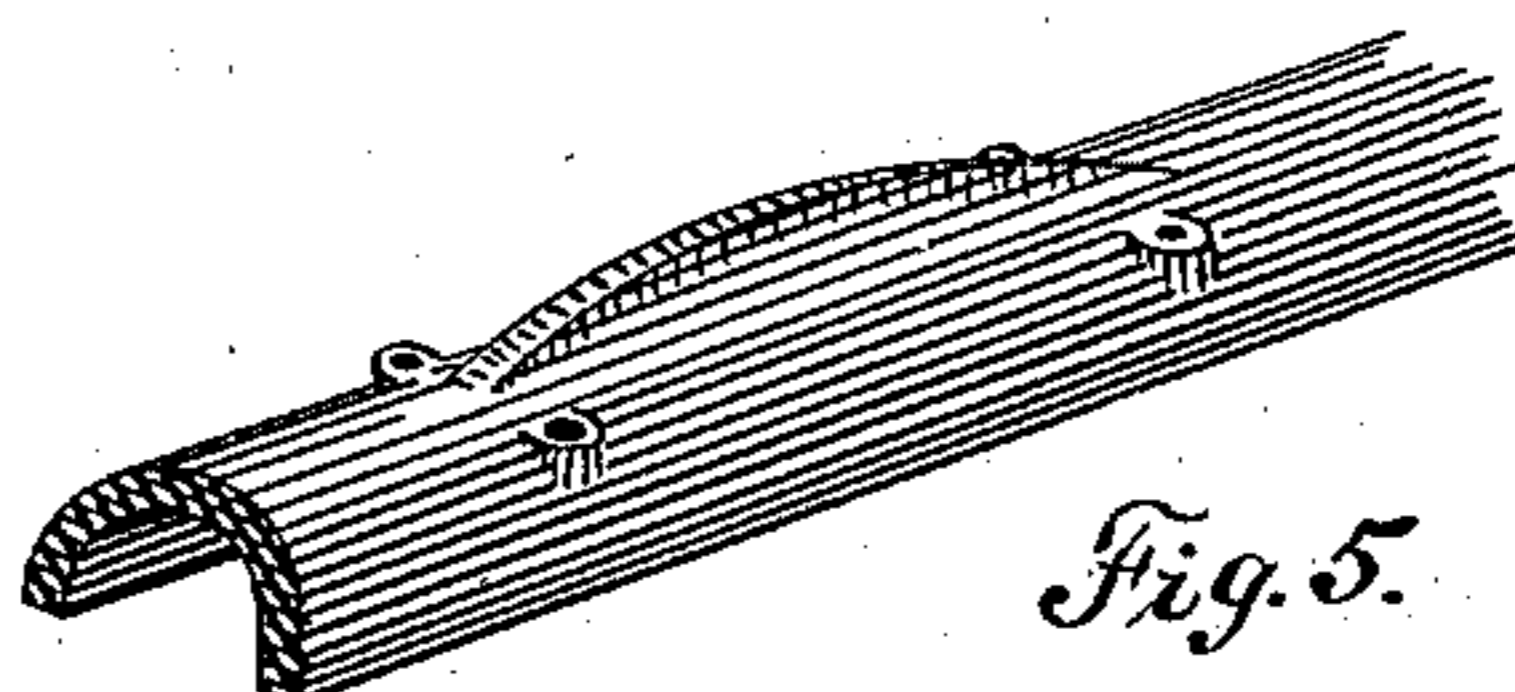
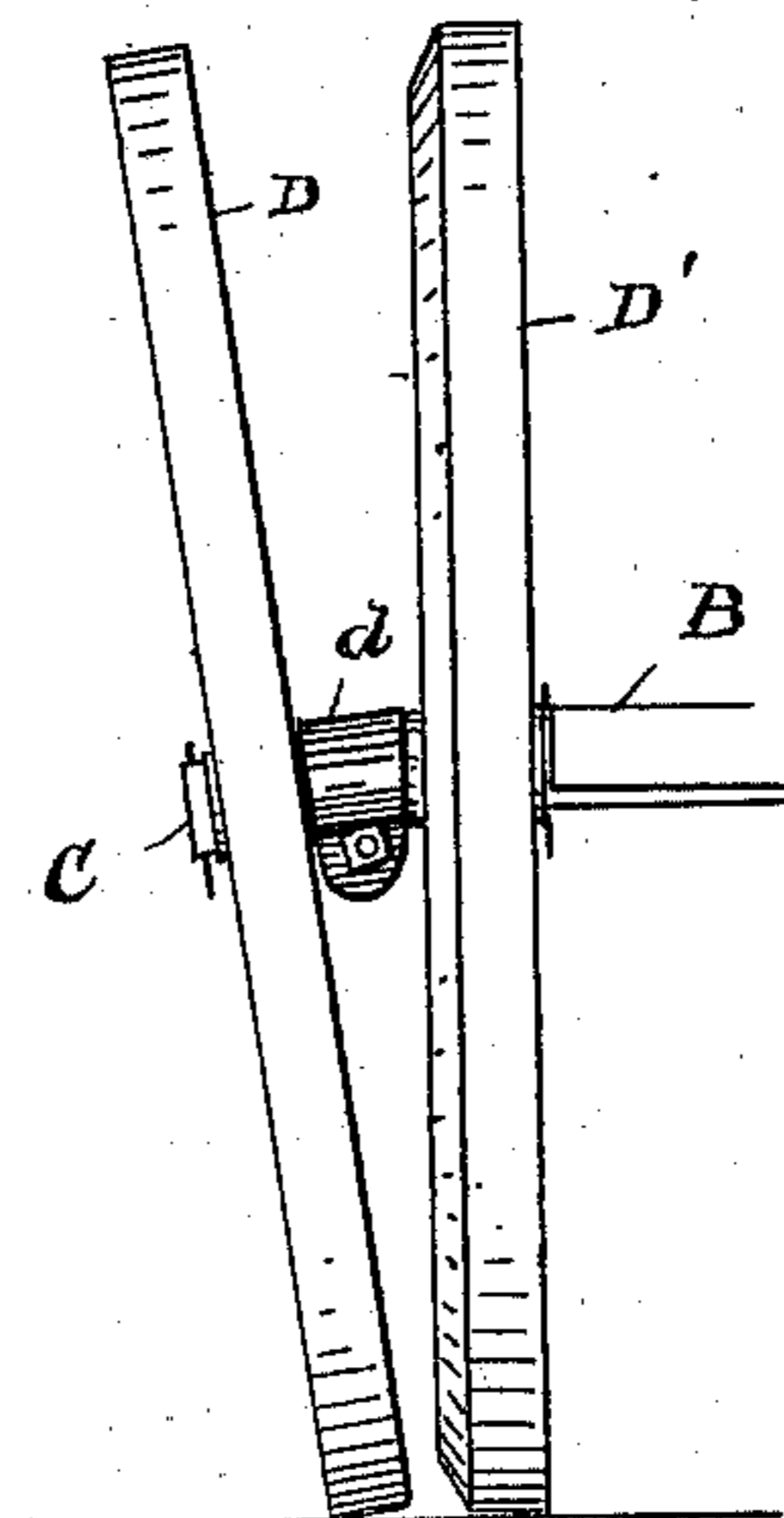


Fig. 5.

Fig. 3.



Witnesses.
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RANDOLPH BOYD, OF GALVA, ILLINOIS.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 558,768, dated April 21, 1896.

Application filed October 28, 1895. Serial No. 567,221. (No model.)

To all whom it may concern:

Be it known that I, RANDOLPH BOYD, a citizen of the United States, residing at Galva, in the county of Henry and State of Illinois, have
5 invented certain new and useful Improvements in Corn-Planters; 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 ap-
10 pertains to make and use the same.

This invention relates to corn-planters.

The object of the invention is to provide a simple and cheap device for changing the distance between the wheels of corn-planters.
15 I am aware that it is not new to vary the distance between the wheels; but the means heretofore used have been costly and complicated.

In the drawings herewith, Figure 1 is a plan
20 view of a portion of a planter-frame mounted upon the carrying-wheels. Fig. 2 is a sectional elevation of that portion of the device to which the shaft portions are secured, and showing also the shaft-sections. Fig. 3 is an
25 elevation of two of the carrying-wheels, showing means of mounting same on shaft-sections. Fig. 4 is a perspective view of one of the shaft-sections, showing a portion of main frame and support. Fig. 5 is a perspective
30 view of a portion of shaft-housing.

A represents the frame of the planter; B, a shaft-housing to which the said frame is secured.

35 C C' are the shaft-sections, and D D' the wheels mounted thereon.

The frame may consist simply of angle-iron made in suitable form of the width required.

The shaft-housing to which the frame is secured is made of a suitable length of metal
40 having a crescent or U shaped cross-section, as shown. With the upper surface of this housing B are cast at suitable points the lugs B', to which the main frame A is bolted. The shaft-sections C C' are two lengths of
45 round iron or steel, which are clamped in position within the housing B by the U-shaped staples a a, which are threaded on either extremity and pass up through the portion B and take a set of burs or nuts.

50 In order that the clamping may be more

perfect and also to furnish means for the longitudinal adjustment of the shafts, the housing B is provided near either extremity with a lug b on their grooved surfaces, as shown, and the shaft portions carry the depres-
55 sions c c.

In order to decrease or increase the distance between the rows being planted, it is only necessary to loosen the clamping portions just described and to shift the shaft
60 portions from one depression to another with reference to the said lugs b.

The outer free ends of the shafts project beyond the ends of the housing B, and the portions thereof adjacent to the said ends are
65 designed to receive one of the carrying-wheels D', while the parts of the shaft beyond the wheels D' are bent downwardly, substantially as shown. It will now be seen that on mounting a wheel D at the side of the vertical
70 wheel just described the wheels will be at an angle with each other, as shown in Fig. 3.

The inner perpendicular wheel D', being beveled on its side adjacent to the slanting wheel, furnishes means, in conjunction with
75 the raised rim of the said slanting wheel, for pressing the earth firmly into place after the planting is done. Between the wheels thus placed is a clamp d upon the shaft, which forms a partial bearing for said wheels and
80 keeps them in proper position. On the hub of one of the wheels may be secured a sprocket-wheel for driving the dropping mechanism by means of a chain. The usual keys or split pins are used to retain the wheels
85 in place.

I am aware that it is not new to provide means for altering the distance between the wheels nor to provide pairs of wheels at an angle to each other; but
90

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

An adjustable mounting for corn-planters consisting of the main carrying-frame A, a semicircular shaft-housing placed trans-
95 versely of said frame, a semishaft seated in the housing at both extremities thereof, the outer ends of said shaft portions being inclined downward at an angle, the horizontal portion and the inclined portion being each
100

provided with a wheel for the purposes set forth, a lug *b* on the under or grooved surface of said housing at either end thereof, indentations *c c* in said shaft portions to correspond with and engage the said lugs *b* and the U-shaped clamps *a* substantially as and for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

RANDOLPH BOYD.

Witnesses:

H. C. LYFORD,

WM. McMEEKIN.