

(No Model.)

W. B. BURDINE.

COTTON GIN.

No. 271,570.

Patented Jan. 30, 1883.

Fig. 1.

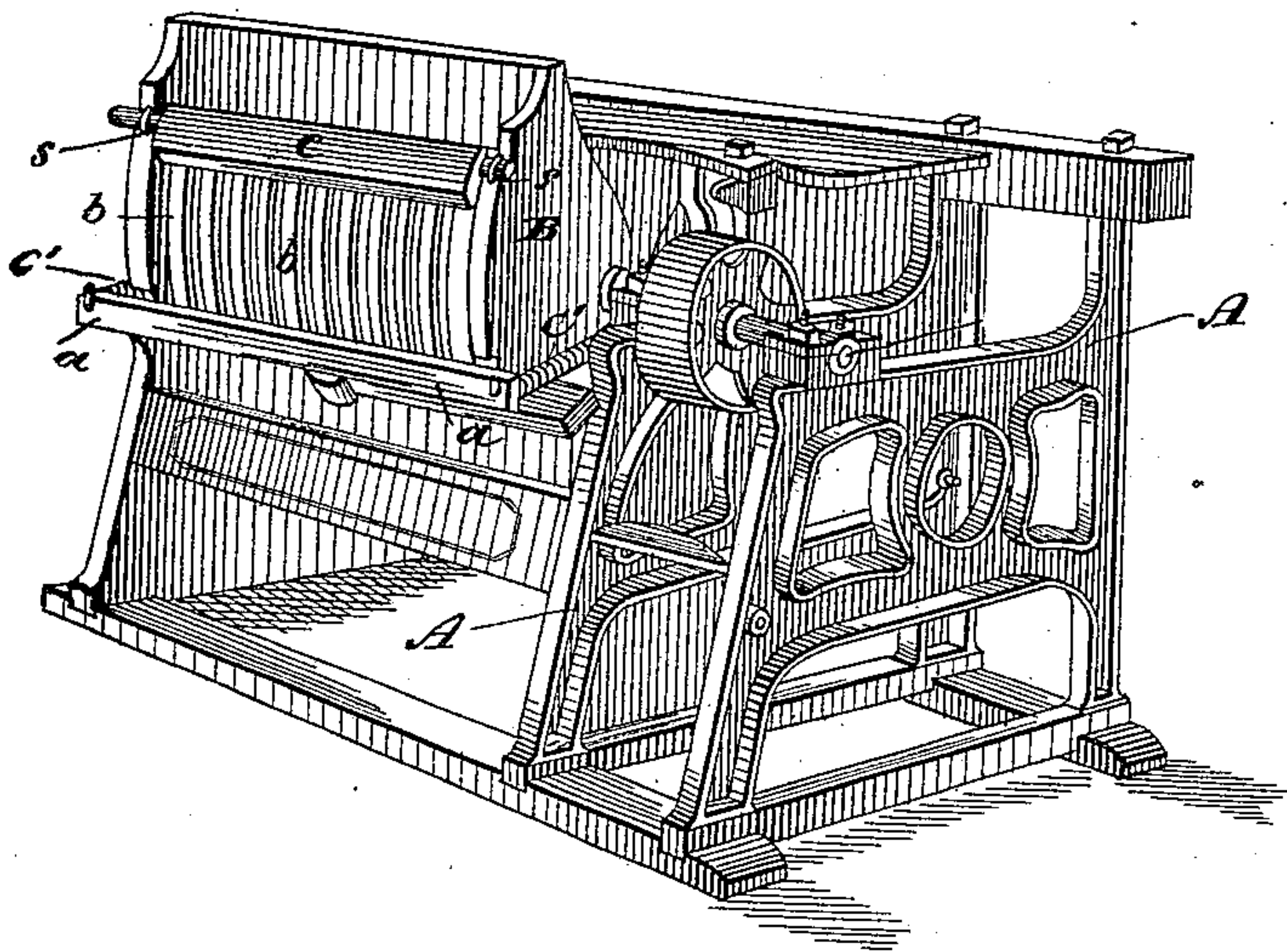
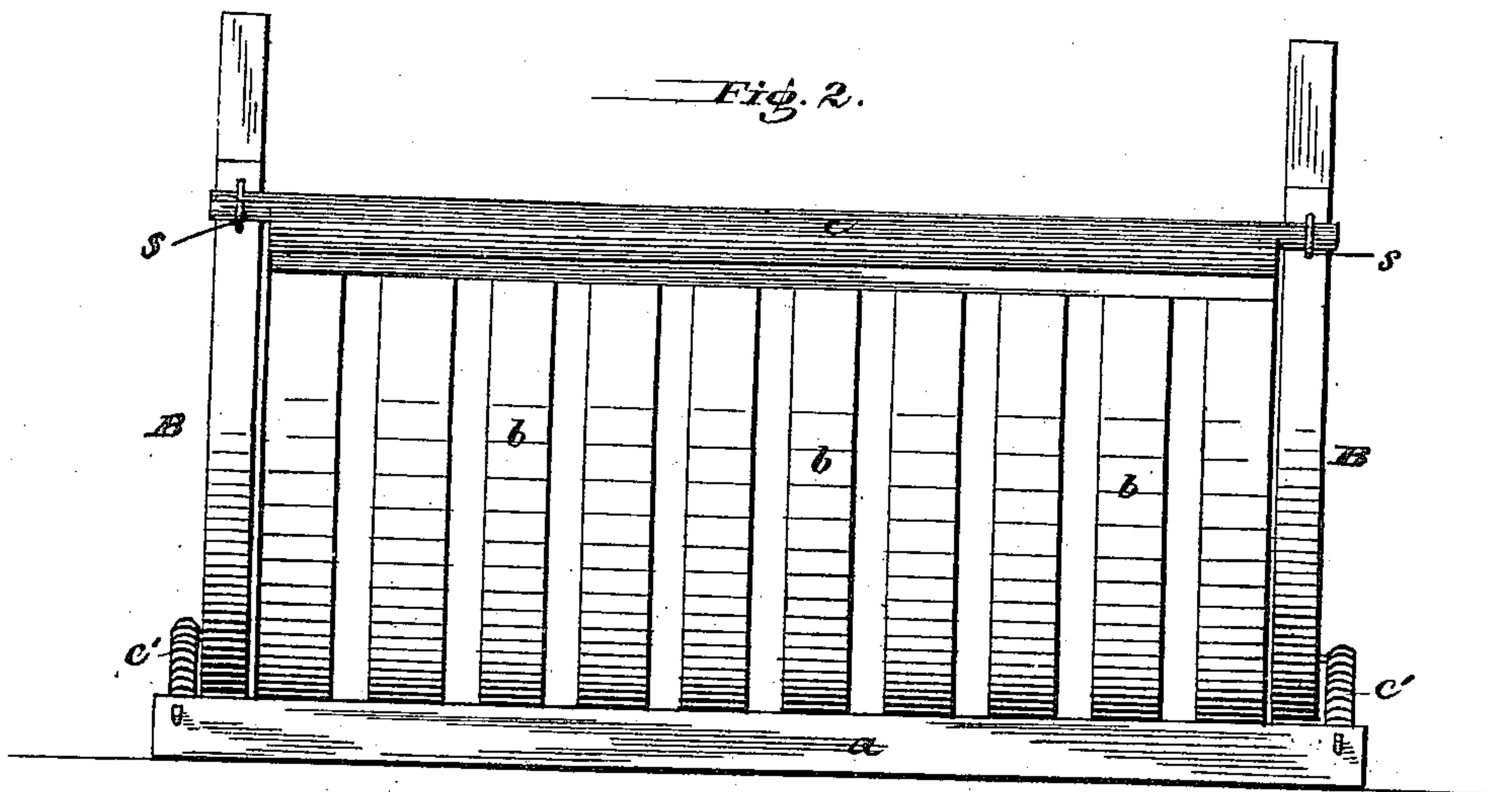


Fig. 2.



WITNESSES:

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INVENTOR.

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UNITED STATES PATENT OFFICE.

WILLIAM B. BURDINE, OF TROY, ALABAMA, ASSIGNOR OF ONE-THIRD TO
FRANK BALTZELL, OF SAME PLACE.

COTTON-GIN.

SPECIFICATION forming part of Letters Patent No. 271,570, dated January 30, 1883.

Application filed June 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. BURDINE, of Troy, in the county of Pike and State of Alabama, have invented certain new and useful
5 Improvements in Cotton-Gins; 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, and in which—

Figure 1 is a perspective view of a cotton-gin, showing my improved roll-box applied
15 thereto; and Fig. 2 is a front elevation, on an enlarged scale, of the roll-box detached from the gin.

Similar letters of reference indicate corresponding parts in both the figures.

20 This invention has relation to improvements in roll-boxes for cotton-gins, having for its object to provide for ventilation, and for facilitating the feeding of the cotton into the gin; and to this end it consists in the peculiar construction and combination of parts of the roll
25 or feeding box, as hereinafter more fully described, and particularly pointed out in the claim.

Referring to the accompanying drawings,
30 the letter A indicates a cotton-gin, which may be of any approved construction.

B is the roll or feeding box for feeding the cotton into the gin. This box has a movable or yielding front, composed of curved metallic
35 strips or plates *b*, secured parallel to one another between top and bottom bars, *c* and *a*, the top bar, *c*, being hung in boxes or sta-

ples *s s* in the upper part and on opposite sides of box B. The parallel bottom bar, *a*, is connected to the sides of box B by springs
40 *c' c'*, one at each end. As the cotton is fed into the gin the spaces between the slats *b b* in the feed-box permit of its thorough ventilation, and also permit loose dirt or impurities contained in the cotton to drop out. If
45 the feeding is at any given period in excess of the capacity of the saws, the cotton will not clog the latter, but the lower part of box B, or, rather, the front part of said box, will give or yield by stretching springs *c' c'*, so as
50 to afford room for the excess of cotton fed into the machine. When the excess ceases the springs will again draw the front of the box into its normal position, so that at no stage will the operation of feeding cotton to the gin
55 affect the satisfactory working of the latter.

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

A cotton-gin roll-box having the front com-
60 posed of the parallel curved slats *b b*, top bar, *c*, hinged in the sides of the box, and bottom bar, *a*, connected at its ends to opposite sides of the box by springs *c' c'*, substantially as and for the purpose herein shown and set
65 forth.

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

WILLIAM B. BURDINE.

Witnesses:

A. H. OWENS,
J. W. TINER.