(No Model.)

C. C. CONNELL & J. B. JOHNSON.

REVOLVING COTTON BOX.

No. 421,554. Patented Feb. 18, 1890.

Fig. 1.

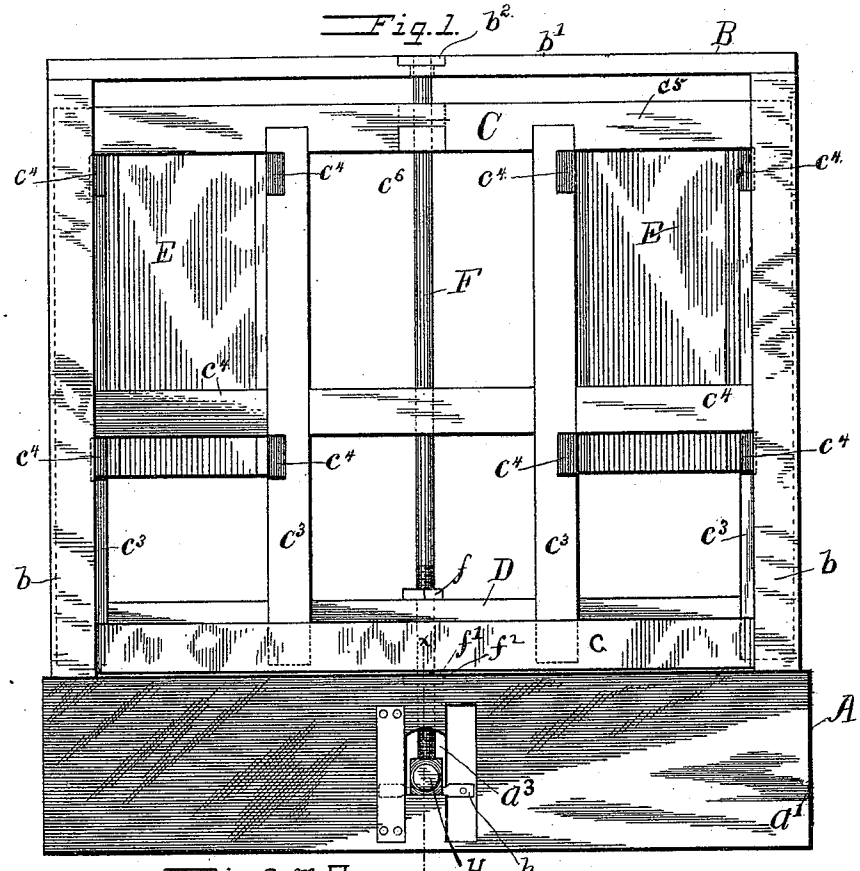


Fig. 2.

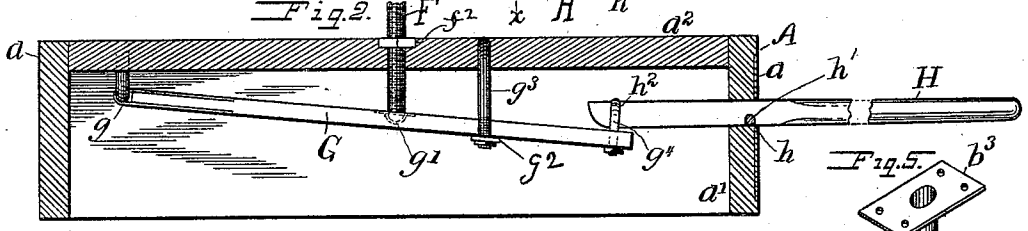


Fig. 5.

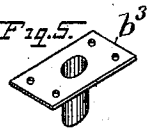


Fig. 3.

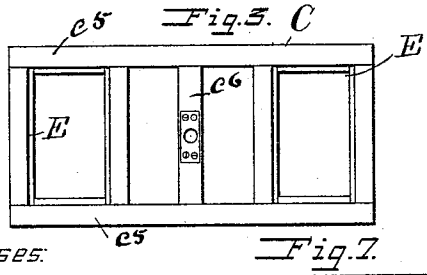


Fig. 4

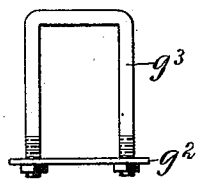
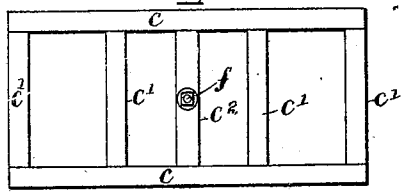


Fig. 6.

Fig. 7.



Witnesses:
R. A. Balderson.
M. C. Lansdale

Inventors:
C. C. Connell
And.
J. B. Johnson:
By His Attorney
John S. Duffie

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CHRISTOPHER C. CONNELL AND JOSEPH B. JOHNSON, OF MOUNT VERNON, ARKANSAS.

REVOLVING COTTON-BOX.

SPECIFICATION forming part of Letters Patent No. 421,554, dated February 18, 1890.

Application filed July 3, 1889. Serial No. 316,458. (No model.)

To all whom it may concern:

Be it known that we, CHRISTOPHER COLUMBUS CONNELL and JOSEPH BEDLES JOHNSON, citizens of the United States, residing at Mount Vernon, in the county of Faulkner and State of Arkansas, have invented certain new and useful Improvements in Revolving Cotton-Boxes; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention has relation to double bale-boxes and mechanism for operating the same. The boxes are made and arranged so as to revolve around, and while one is under the screw or press power the other stands in front of the gin and condenser to receive the cotton from the gin and made to fill while the bale-hands press, bind, and take the bale from the other box.

In the accompanying drawings, Figure 1 is a front elevation of our invention. Fig. 2 is a sectional view of the base part cut through on the line x x. Fig. 3 is a top plan view of the swinging frame holding the two boxes. Figs. 4, 5, and 6 are detail views, and Fig. 7 is a top plan view of the base of the swinging frame.

Our invention is described as follows:

The base A is composed of a strong frame consisting of the end pieces a and side pieces a', of sufficient thickness to support a floor a^2, sufficiently strong to bear the weight of the swinging frame C, the boxes E, and the mechanism designed to operate the same.

On top of the base A is erected a frame B, consisting of four corner-posts b, the lower ends of which rest on the corners of the base A, and two side beams b', one of which rests upon the upper end of the two front posts b and the other one on the two rear posts b, thus leaving the two ends of the frame open, so that one open end can be set near the receiver, while the other open end stands directly off from the same, through which the packed bale of cotton can roll off and out of the way, and a cross-beam b^2, either end of which is secured in the side beams at their middle. Said beam b^2 has through its middle a perforation, in which is fitted a flanged socket b^3.

The swinging frame C is composed of a base-frame, having the side pieces c, cross-pieces c', and a perforated center piece c^2. On the top of said base are secured eight posts c^3, braced and secured together by the cross-pieces c^4 and the top beams c^5. Across said top beams is secured a perforated center cross-beam c^6. On the top of said base and between the said side posts is secured a substantial floor or bottom D for the cotton-boxes, and in either end of said frame C, resting against the inner faces of the said posts and cross-beams just described, are secured cotton-boxes E, with room enough between their lower ends and the bottom D to insert proper bale-doors.

Through the perforations of the perforated center pieces c^2 and c^6 is a cylindrical rod F, on which said revolving frame is secured, the lower end of the said rod being threaded and a nut f working on said rod and screwed down tight against the upper face of the floor-bottom D, and a nut f' working on said rod and countersunk in the cavity f^2 in the upper face of the floor a^2. These two nuts operating together serve the two purposes of tightly securing the revolving frame to said rod and adjusting it to the proper height above the base A. The upper end of said rod F is pivoted or journaled in the flanged socket b^3, which is secured in the perforation in the middle of the cross-beam b^2.

To the under face of the floor a^2 is hinged, by means of the staple and hasp g, a lever G, on the upper face and near the center of which is secured a cup g', Fig. 6, in which rests the lower end of the cylindrical rod F. Said lever F is supported near its forward end by the cross-piece g^2 of the U-shaped bolt g^3, the arms of which pass down through the floor a^2. To the extreme end of said lever G is secured another U-shaped bolt g^4.

In the middle of the front piece of the brace A is an opening a^3, more than large enough to receive the end of the lever H, and near the base of said opening is a cross-rod h, which may be called a "fulcrum-rod," on which the said lever H rests, its notch h' rest-

ing on said rod and its notch h^2 resting in said U-shaped bolt g^4.

In baling cotton one of the open ends of the frame B is placed near the gin of the cotton-receiver and the revolving frame swung around until one of the boxes E is in position to receive the lint-cotton. Then the revolving frame is let down and sits flat and solidly on the floor of the base A. When the box is full of cotton and ready to be pressed, we bear down on the outer end of the lever H. This raises the free end of the lever G, which raises the rod F, and consequently the revolving frame B, when it may be swung around until the empty box is in position to receive the lint-cotton and the filled box is under the screw or pressing power. Then by easing up on the lever H the said revolving frame is let down gently until it is again flat down on the base A. Then the cotton is pressed into a bale and rolled away, and while this is being done the empty box is being filled. Then the frame is again raised and the filled box swung around to the pressing-power and let down as before. Thus it will be seen that no time is wasted and the necessity of a lint-room is done away with.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a revolving double baling device, of the base A, provided with the opening a^3 and fulcrum-rod h, lever G, hinged under the bottom of said base, U-shaped bolt g^3, and cross-piece g^2, bearing the free end of said lever, lever H, fulcrumed on the rod h, and adjusted to operate the lever G, rod F, bearing the revolving frame C, and frame B, in which the upper end of said rod F is journaled, substantially as shown and described.

2. The combination, in a revolving double baling device, of the base A, provided with the opening a^3 and fulcrum-rod h, lever G, hinged under the bottom of said base, cup g', secured in the upper face of said lever, U-shaped bolt g^3, and cross-piece g^2, bearing the free end of said lever, lever H, its inner end resting in U-shaped bolt g^4, and its middle fulcrumed on rod h, rod F, bearing the revolving frame C, and frame B, in which the upper end of rod F is journaled, substantially as shown and described.

3. In a baling device, substantially as shown and described, the combination of the revolving frame C, bearing the boxes E, the rod F, secured in the center of said frame and supported by a substantial frame-work, nuts ff', working on the lower and threaded end of said rod and against the upper and lower faces of said frame, the lower end of said rod socketed in the lever G, operated by the lever H, all substantially as shown and described, and for the purposes set forth.

4. The combination of the base-frame A, consisting of the end pieces a, side a', and floor a^2, and having in its front side piece the opening a^3, and secured to the base of said opening a fulcrum-rod h, frame B, consisting of the corner-posts b, side beams b', and perforated center cross-piece b^2, having secured in its center flanged thimble b^3, the revolving frame C, consisting of the base having the side pieces c, cross-pieces c', and perforated center piece c^2, upright posts c^3, cross-beams c^4, side beams c^5, and perforated center cross-beam c^6, bearing the baling-boxes E, cylindrical rod F, passing down through the perforation of said cross-pieces b^2, c^6, and c^2, and its lower end resting in the cup g', securing and adjustable nuts working on the threaded end of said rod, lever G, hinged to the lower face of the floor of the base A, and bearing in its cup g' the lower end of said rod, its free ends secured by the U-shaped bolt g^3 and lever H, fulcrumed on the rod h, its short end passing through the opening into said base and into the U-shaped bolt g^4, secured to the extreme end of the lever G, all substantially as shown and described, and for the purposes set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

C. C. CONNELL.
J. B. JOHNSON.

Witnesses:
H. H. DAVIS,
J. H. WARDEN.