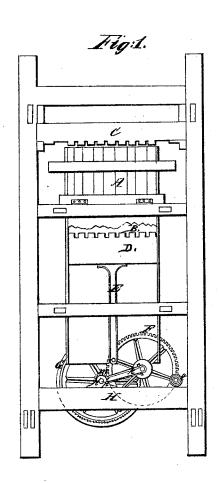
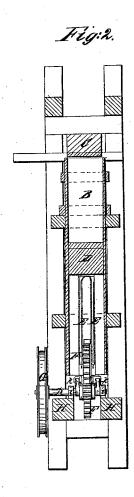
## C. Gardiner, Cotton Press. Patented Oct. 16, 1847.

Nº5332.





## UNITED STATES PATENT OFFICE.

CHAS. GARDINER, OF NEAR RICHMOND, ALABAMA.

## IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. 5,332, dated October 16, 1847.

To all whom it may concern:

Be it known that I, CHARLES GARDINER, of Richmond, in the county of Dallas and State of Alabama, have invented a new and Improved Cotton-Press; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation with a part of the cotton-box broken out, and Fig. 2 is a vertical transverse section through the same.

Similar letters indicate like parts in both

the figures.

B is the box in which the cotton or other substance is placed to be pressed. A is a door opening into the box B, through which the bales are removed after they have been pressed. C is a strong beam placed over the box B, against which the cotton is pressed. D is the platen or follower of the press.

The platen is operated by the following com-

bination of parts:

G is the driving-wheel, to which power is applied for operating the platen, to which it is connected in the following manner: p is the driving-shaft, to which the wheel G is secured. m is a pinion on the driving-shaft p. F is a cog-wheel meshing into the pinion m. E E are legs descending from the center of the platen D on each side of the cog-wheel F, to the sides of the periphery of which their lower ends are connected by a joint-pin. The cogwheel F has a movable axis, which is connected to the driving-shaft p by the arms k k. Bearing fulcrum-rollers t t are secured to journals projecting from each side of the periph-

ery of the cog-wheel F directly opposite that portion of the same to which the platen-legs E E are connected. The rollers t t rest and traverse upon the beams H H. i i are the boxes in which work the journals of the driving-shaft p. When power is applied to the driving-wheel G, the pinion m imparts a rotary motion to the cog-wheel F upon its axis, at the same time causing the axle of F to ascend, being retained in its relative position in connection with the driving-pinion by the arms k k and the bearing fulcrum-rollers t t, by which compound movements of the cogwheel F motion is imparted to the platen through the medium of its legs E E. This combination, it will readily be perceived, is very compact, allowing a wide latitude of movement to the platen, and the power applied to the platen is progressive where it is desirable that it should be-viz., during the last half of its movement—from the point that the arms k k reach a horizontal position until they arrive at a vertical position.

Having thus fully described my improved cotton-press, what I claim therein as new, and desire to secure by Letters Patent, is—

The manner in which I communicate motion and power from the driving-shaft p to the platen D through the medium of the pinion m, cog-wheel F, connecting-arms k k, platenlegs E E, and fulcrum bearing-rollers t t, combined and operating with each other substantially in the manner herein set forth.

CHARLES GARDINER.

Witnesses:

R. S. FLETCHER, JOHN STRACHAN.