

(No Model.)

W. P. CARR.

COTTON PRESS.

No. 347,468.

Patented Aug. 17, 1886.

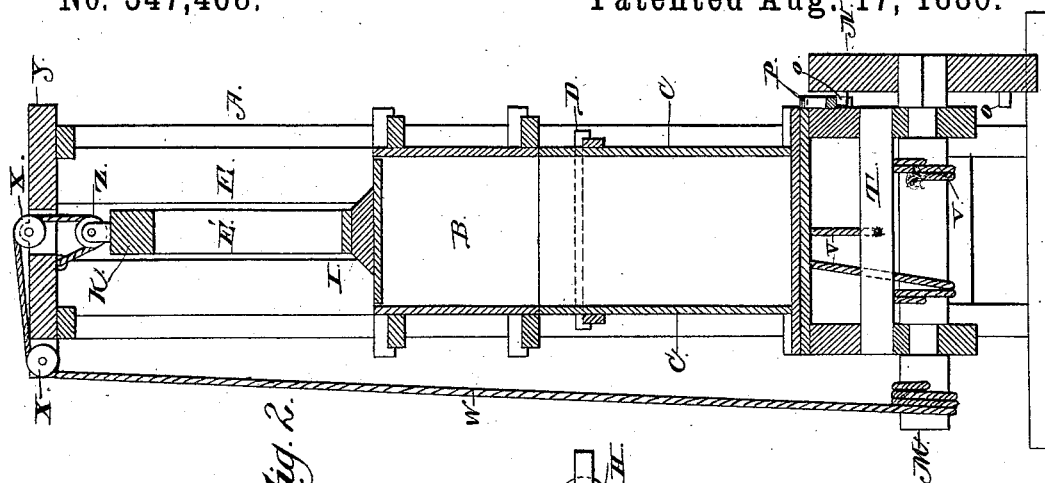


Fig. 2.

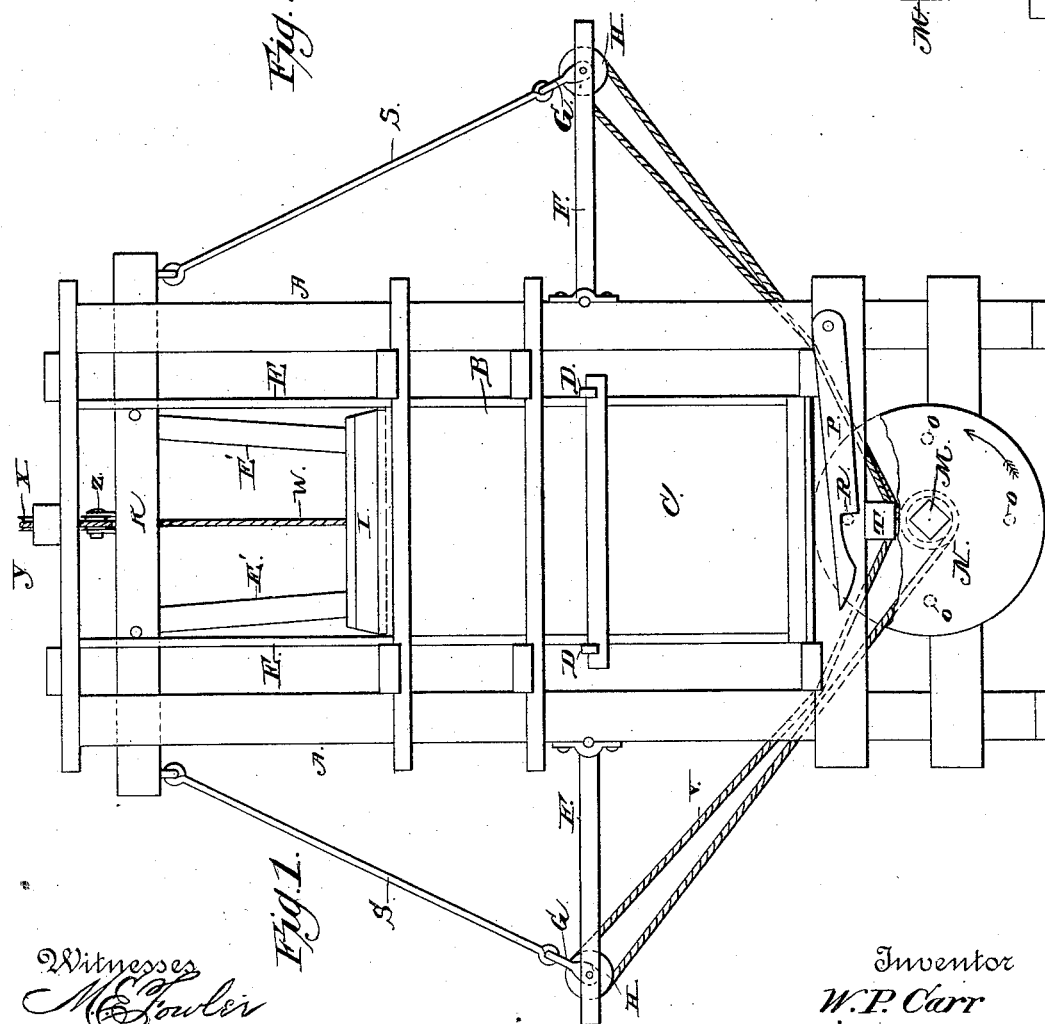


Fig. 1.

Witnesses
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By his Attorneys

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UNITED STATES PATENT OFFICE.

WASHINGTON PERRY CARR, OF TAZEWELL, GEORGIA.

COTTON-PRESS.

SPECIFICATION forming part of Letters Patent No. 347,463, dated August 17, 1886.

Application filed April 1, 1886. Serial No. 197,447. (No model.)

To all whom it may concern:

Be it known that I, WASHINGTON PERRY CARR, a citizen of the United States, residing at Tazewell, in the county of Marion and State of Georgia, have invented a new and useful Improvement in Cotton-Presses, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in cotton-presses; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claim.

In the drawings, Figure 1 is an elevation, partly in section. Fig. 2 is a vertical longitudinal sectional view.

A represents a vertical supporting-frame, in which is secured the usual press-box, B, which is provided at its lower portion with removable sides C, which sides are secured together on the press-box by means of hooked bars D. From the upper side of the press-box, at the ends thereof, project vertical standards or guideways E, which are slotted, as shown.

F represents lever-arms, which are fulcrumed at their inner ends on the sides of the frame A, at a suitable distance from the base thereof, and in the outer end of the said arms or levers are journaled sheaves H. To the transverse pins which form the journals for the said sheaves are attached loops G.

I represents a follower, which works vertically in the press-box, and is suspended from a horizontal beam, K, which works in the guideways E by depending arms E', which extend from the lower side of the said beam.

M represents a horizontal shaft or drum, which is journaled centrally in the frame A, at a suitable distance below the bottom of the press-box, and to one end of the said shaft or drum is rigidly secured a wheel, N, which is provided on one side with horizontally-projecting pins O.

P represents a detent-arm, one end of which is pivoted to the frame A, and the free end of the said arm is notched, as at R, and normally engages with one of the teeth or pins O of the wheel N to prevent retrograde motion of the said wheel.

S represents connecting-rods, which have their upper ends connected to the outer ends

of the follower-beam K, and the lower ends of the said rods are connected to the loops G, which are secured to the outer ends of the lever-arm F.

A transverse beam, T, extends horizontally across the frame A below the bottom of the press-box, and immediately above the shaft or drum M, and to the said beam T is secured firmly a rope, V. This rope extends outwardly in opposite directions from the beam T, and passes over the sheaves H in the outer ends of the lever-arms, and the ends of the said rope, after passing over the said sheaves, are secured firmly to the drum or shaft M. One end of the said drum or shaft projects beyond one side of the frame A, and to it is attached a rope, W, which passes up over sheaves X, which are secured on a transverse beam, Y, which latter is secured centrally on top of the frame A, and from the said sheaves the said rope passes downwardly under a sheave, Z, which is secured on the upper side of the follower-beam K, at the center thereof, and the end of the said rope W then passes upwardly from the said sheave Z, and is firmly attached to the beam Y.

The operation of my invention is as follows: The detent-lever P is first thrown to one side, in order to release the pins of the wheel N, and the latter is then rotated in the reverse direction to that indicated by the arrow in Fig. 1, which unwinds the rope V from the drum M and simultaneously coils the rope W upon the projecting end of the said drum, and thereby elevates the follower above the upper end of the press-box, thus leaving the upper end of the press-box entirely open and unobstructed, and permitting the cotton which is to be baled to be readily thrown into the said press-box. When the follower is at the upper limit of its movement, the lever-arms F project horizontally from the ends of the frame A, as shown in solid lines in Fig. 1. When a sufficient quantity of cotton has been packed in the press-box, the detent-arm P is caused to engage with the pins or teeth of the wheel N, and the latter is rotated in the direction indicated by the arrow in Fig. 1, which causes the elevating-rope W to unwind from the drum M, and the rope V to be simultaneously coiled thereon, and thereby cause the said

rope to lower the outer ends of the lever-arms F. As the said lever-arms are connected to the follower-beam K by means of the rods S, the downward movement of the said arms is communicated to the follower, thereby causing the latter to descend with great force in the press-box and tightly compress the cotton therein to form a bale. The bale is then tied in the usual manner; the follower raised, as hereinbefore described, and the sides C are removed from the press-box, thereby permitting the bale to be taken therefrom.

A cotton-press thus constructed is cheap and simple, occupies very little room, may be readily transported, and is thoroughly practical and efficient in operation. As both ends of the follower-beam are connected to the lever-arms, which are in turn positively connected to the drum, it follows that when the drum is rotated the follower will be either raised or lowered and always maintained in a perfectly horizontal position, thus preventing the bales from being formed unevenly, with one end larger than the other.

Having thus described my invention, I claim—

The combination, with the frame A and the press-box located therein, of the arms F, pivoted to the frame A, the follower working vertically in the press-box, the rods connecting the said follower with the arms F, the drum M, located below the press-box, the elevating-rope W, attached to the said drum, and passing over suitable sheaves and connected to the follower for elevating the latter, and the rope V, connecting the outer ends of the arms F with the drum, and arranged to coil while the rope W is being uncoiled thereon, the wheel N, attached to the drum and provided with the teeth or pins, and the detent adapted to engage with the teeth or pins of the said wheel, or to be readily disengaged therefrom, for the purpose set forth, substantially as described.

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

WASHINGTON PERRY CARR.

Witnesses:

H. S. WALL,
M. B. CARR.