

W. S. COATES.
BALING-PRESS.

No. 188,591.

Patented March 20, 1877.

Fig. 1.

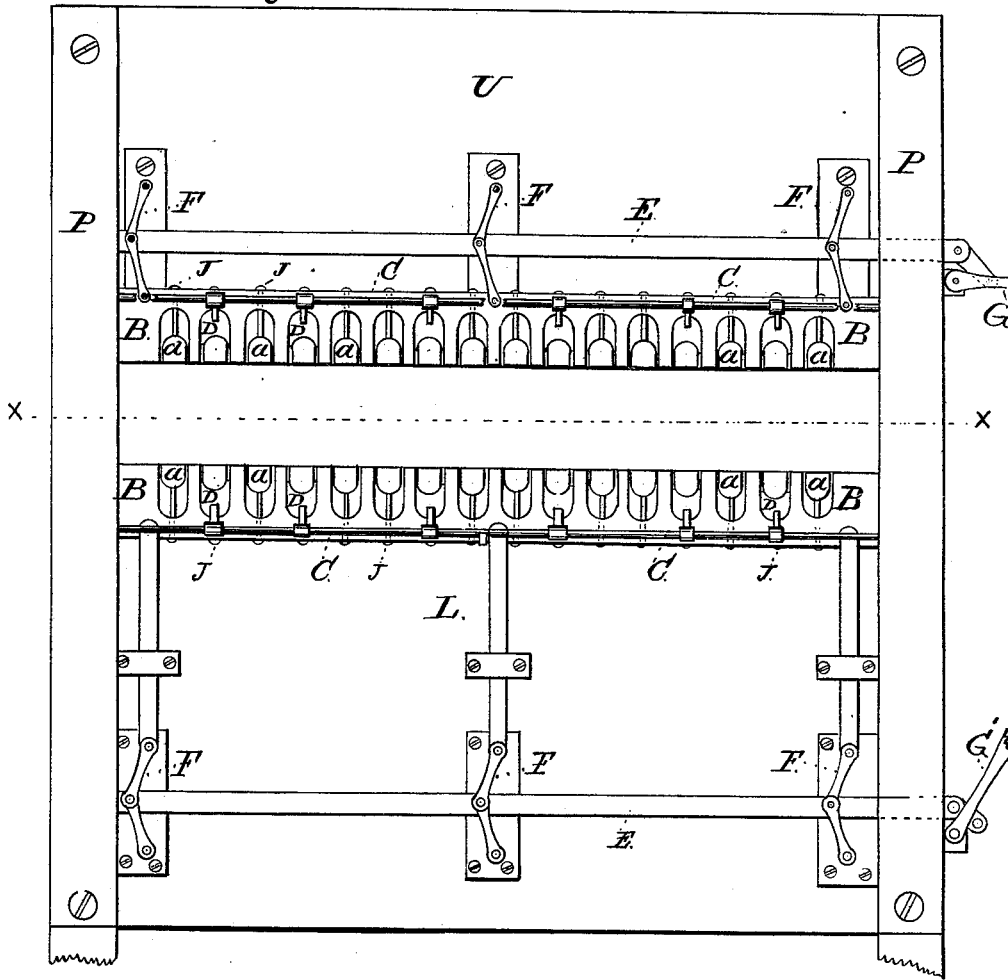


Fig. 2.

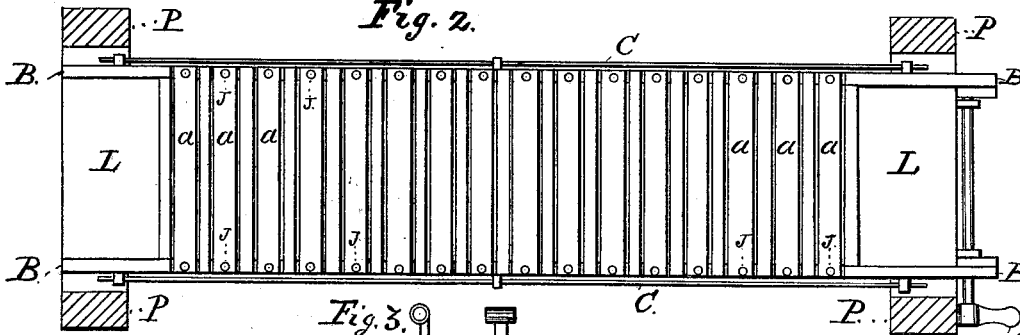
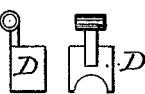


Fig. 3.



Witnesses:
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IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. **188,591**, dated March 20, 1877; application filed January 23, 1877.

To all whom it may concern:

Be it known that I, WILLIAM S. COATES, of the city of Charleston, in the county of Charleston and State of South Carolina, have invented a new and useful Improvement in Bale-Presses, which improvement is fully set forth in the following specification and accompanying drawing, in which—

Figure 1 is a side elevation. Fig. 2 is a section in plan, taken on the line *xx*; and Fig. 3, some of the parts in detail.

The object of my invention is to take up on the press the slack of iron or other metallic bands used on bales of any kind when being compressed, thereby preventing the expansion of the latter upon the removal of the compressing power.

In the accompanying drawings, U represents the upper platen, and L the lower platen. *aaa* are movable iron keys, one of which is inserted between each cross-bar or batten on the edges of the two platens. They are kept in position by the bolts J, which run through each end of each key and through the iron bars B. There are four of the iron bars B, each of which is of the same length as the platens. All four of the bars B have openings to correspond with those on each platen, with the exception of being only half their depth. C C' are iron rods attached to each of the bars B. D is an iron hinge sliding on the rod C, and is shifted to any opening in the bar B, above or below which the bands may be passed through. The bars B are connected by a rock-shaft, E, one of which

is on each platen. By moving the levers G G' to the left the keys *aaa* under and above the hinges D are forced upward and downward on each side of the bale.

On a bale of cotton there are usually six bands. As the position of these bands varies considerably, I use the slide-rod C, in order that the hinged block D may be moved in any desired position. When these hinged blocks are in place between the keys *a* and bars B, the keys are held solid and flush with the battens on the upper and lower platens. The edges of the keys *aaa* are to be straight the whole breadth of the platens, and their ends should not project beyond the iron bars B. This insures a flat bale, instead of those now turned out of the presses, all four inches thicker in the middle than they are at the edges.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The hinged blocks D, made to slide upon the rods C, substantially as described, and for the purposes set forth.

2. The combination, in a bale-press, of the sliding keys *aaa*, inserted between each cross-bar or batten of the platens, the iron bars B, the rods C, and the hinges D, the whole being constructed and arranged substantially as described, and for the purposes specified.

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Witnesses:

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