

G. WINSHIP.
Baling-Presses.

No. 144,245.

Patented Nov. 4, 1873.

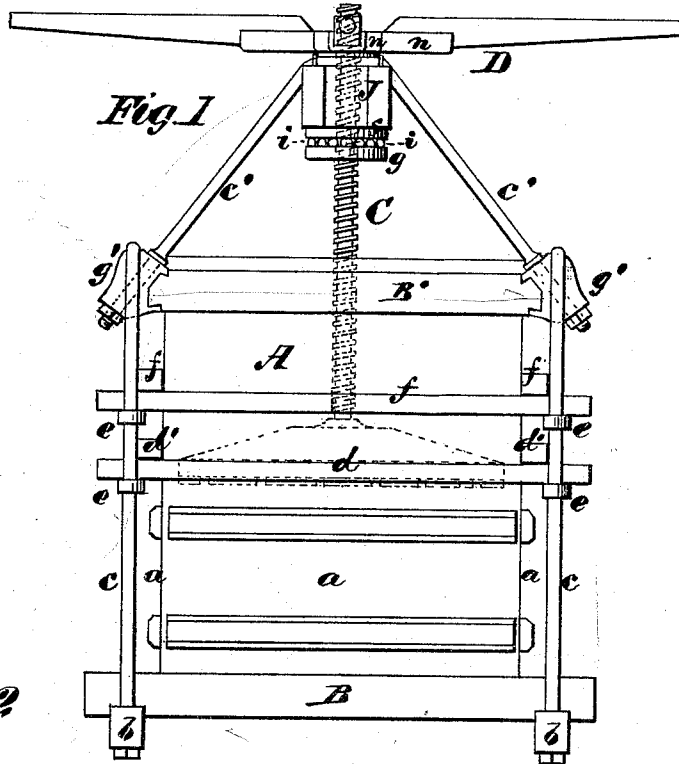


Fig. 2

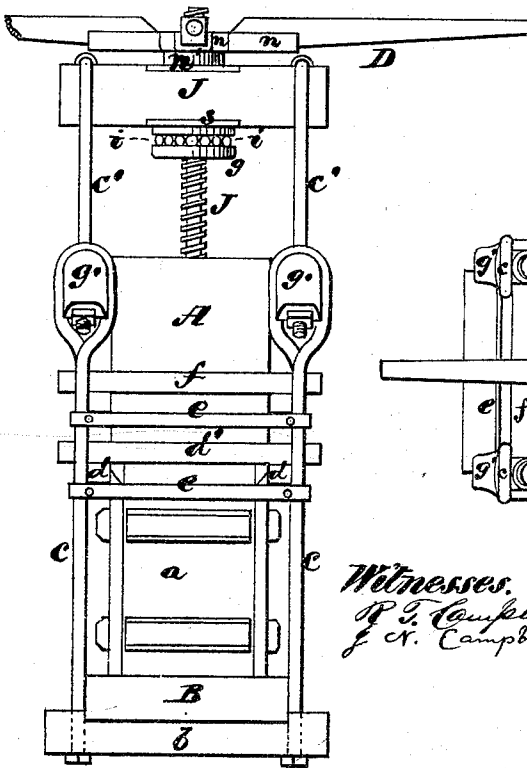
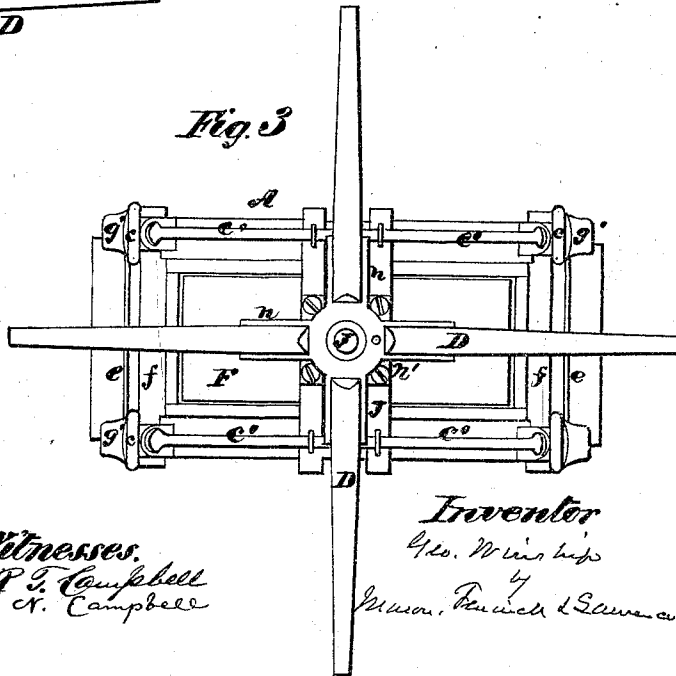


Fig. 3



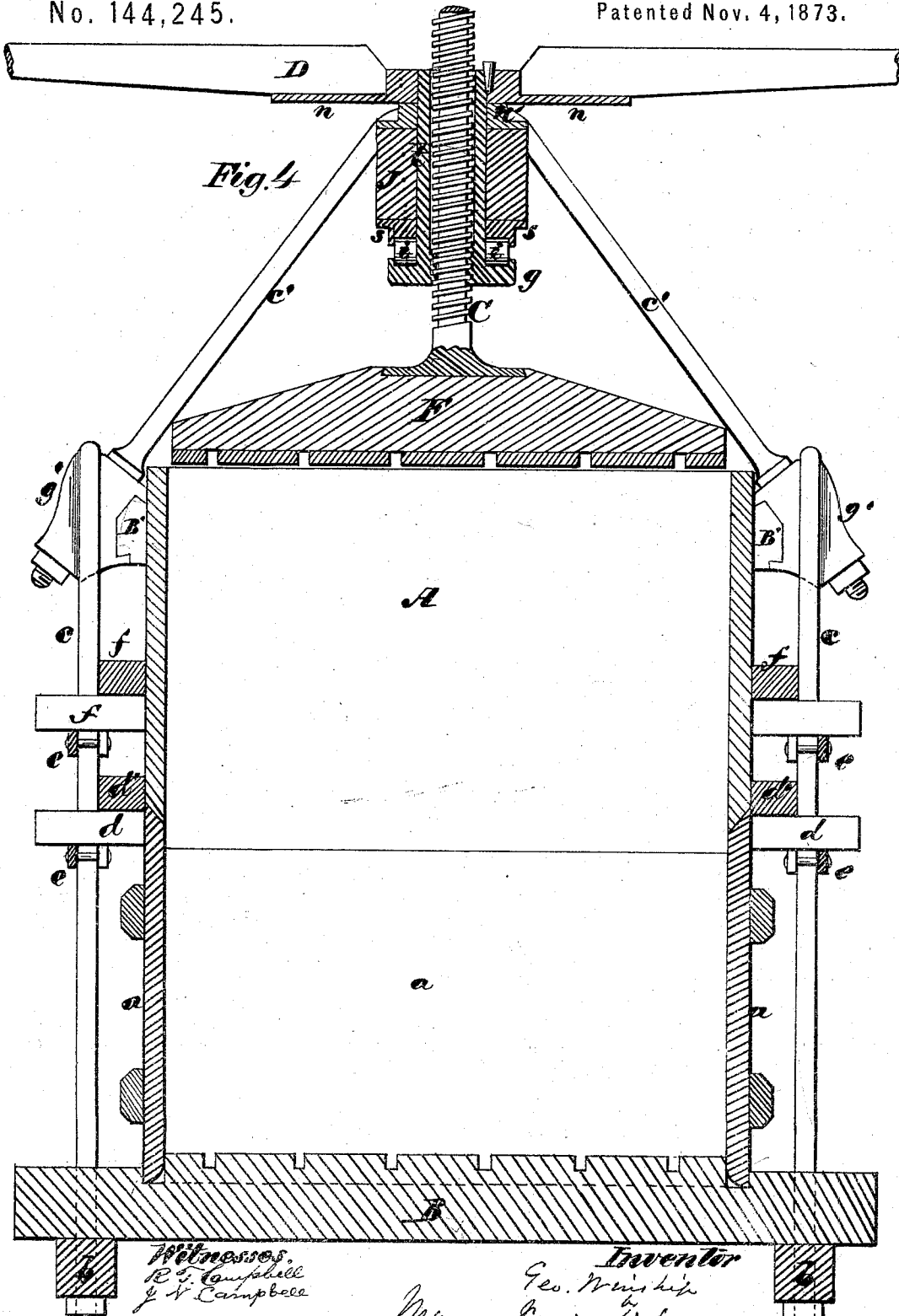
Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE WINSHIP, OF ATLANTA, GEORGIA, ASSIGNOR TO HIMSELF AND ROBERT WINSHIP.

IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. 144,245, dated November 4, 1873; application filed September 1, 1873.

To all whom it may concern:

Be it known that I, GEORGE WINSHIP, of Atlanta, in the county of Fulton and State of Georgia, have invented a new and Improved Baling-Press; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Fig. 1, Plate 1, is a view of one side of my press. Fig. 2, Plate 1, is a view of one end of the press. Fig. 3, Plate 1, is a top view. Fig. 4, Plate 2, is a vertical section.

This invention relates to stay-block for holding the devices which are employed for the certain novel improvements on upright baling-presses, wherein a screw is employed for moving the follower or pressing-head up and down in the press-box.

The following description of my improvements will enable others skilled in the art to fully understand the same.

In the accompanying drawings, A represents the press-box, which is of the upright kind, and which consists of an upper portion with stationary sides, and a lower portion having four removable side boards, *a*. The foundation B of this press-box is a strong piece of timber, grooved transversely on its upper side for receiving the baling-bands, and also grooved transversely and longitudinally at *p p* for receiving the lower ends of the movable side boards *a*. Across the bottom of the foundation B, and near the ends of the same, two strong beams, *b b*, are secured, through the ends of which pass, vertically, standard braces *c c*, which receive nuts on their lower ends, and are carried up as high as the top of the press-box, and looped over stay-blocks *g'*, which are dovetailed on the extremities of horizontal beams B' B', bolted fast to the sides of the press-box. These rods *c* serve not only as standards for supporting the upper portion of the press-box, but they also serve as holding-down braces, as will be hereinafter shown. The stay-blocks *g'* are perforated obliquely, and through them pass arched rods *c' c'*, which support a horizontal cross-beam, J, which is arranged centrally over the press-box, as shown in the drawings. The standard braces are connected together by means of transverse tie-

rods *c c* at each end of the box A, and on the upper tie-rods rest transverse and longitudinal beams *f f*, which sustain the upper portion of the press-box against spreading during the pressing operation. Below the beams *f f* are other beams *d d'* like them which sustain and hold in place the end and side boards *a* of the press-box. By removing these beams *d d'* the boards *a* can be taken away from the press, and access had to the pressed bale for fastening its bands and removing it. F represents the follower or pressing-head, which has centrally secured to it a male screw-threaded shaft, C. This shaft passes up through a flanged nut, *g*, and a long tube, *t*, formed on this nut. The upper end of the tube *t* has keyed on it radial flanged arms *n*, to which hand-sweeps D are secured. The hub of the arms *n* rest upon a collar-bearing, *n'*, which is bolted upon the cross-beam J. Between the flanges of the nut *g* and an upper flanged bearing, *s*, I apply anti-friction rollers *i*, which prevent sliding friction between the nut *g* and bearing *s*. The bearing *s* below the beam J, and the collar-bearing *n'* above this beam, afford guides for the tubular portion *t* of the nut *g*, and allow this tube with its nut to turn freely.

It will be seen from the above description that during the operation of pressing, the strain is transmitted from the cross-beam J, through which the screw C passes to the foundation B of the press, by means of the arched rods *c'* and the standard braces *c*, and as these rods *c c* are applied to stay-irons *g'* on the ends of beams B', there is little or no strain on the press-box, as it is all received by said rods.

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

The press with tie-blocks *g'* dovetailed upon its beams B', and with upright rods *c* passing up from its bottom B, and looping over grooved portions of the tie-blocks, and with arching rods *c' c'* passing through the tie-blocks over the beam J, all constructed and combined substantially in the manner and for the purpose herein described.

GEORGE WINSHIP.

Witnesses:

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W. H. PATTERSON.