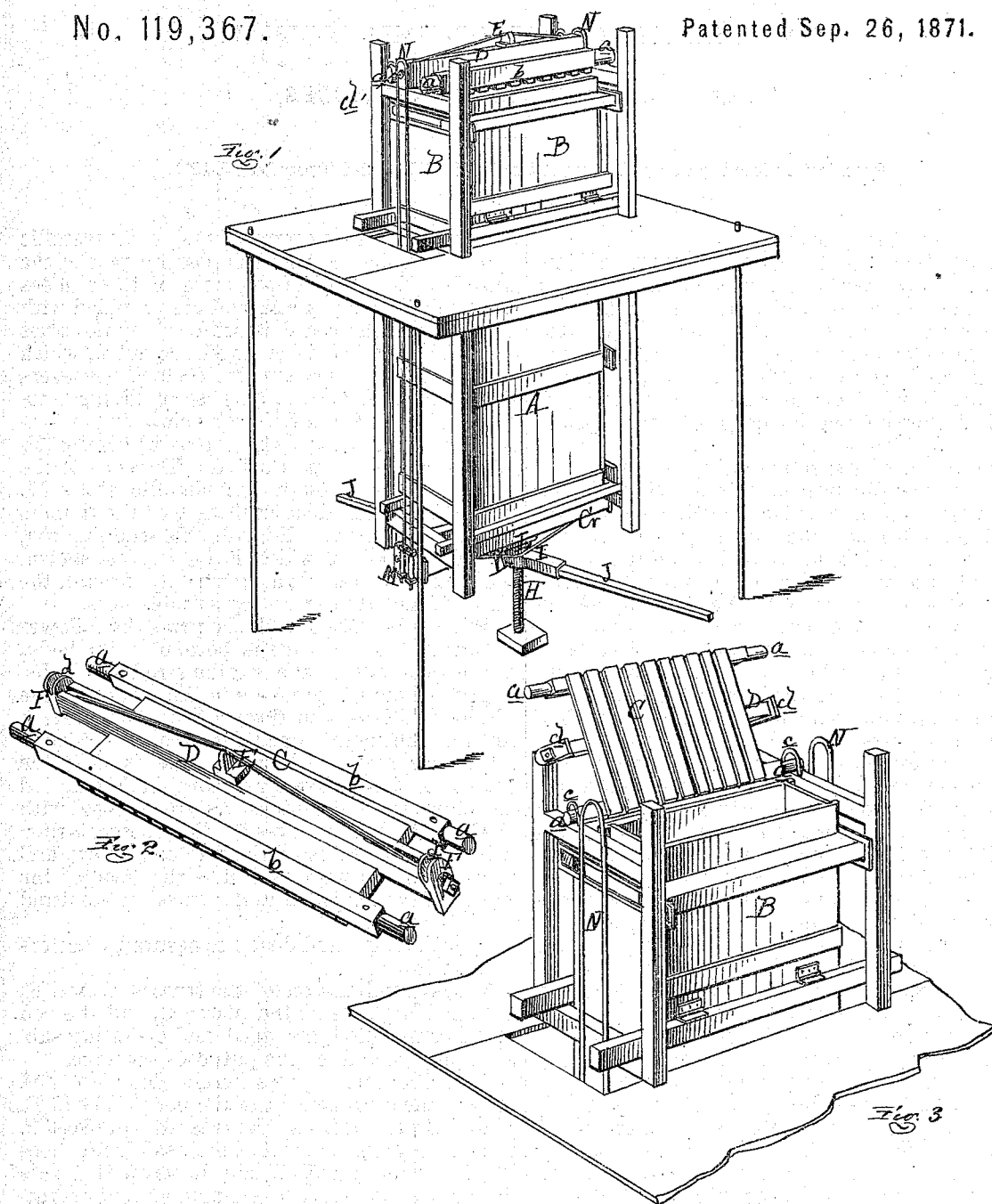


[88.]

J. B. KNIGHT,
COTTON PRESS.

No. 119,367.

Patented Sep. 26, 1871.



ATTEST

H. F. Everts.
Myro H Church

INVENTOR

J. B. Knight
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UNITED STATES PATENT OFFICE.

JACOB B. KNIGHT, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. 119,367, dated September 26, 1871.

To all whom it may concern:

Be it known that I, JACOB B. KNIGHT, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Improvement in Cotton-Presses; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being part of this specification, in which—

Figure 1 is a perspective view of the improved sectional metallic-framed cotton-press with the platen shut down, and the looped iron bars connecting the bed and the platen passed over the shoes on the end of the trussed bar on the platen. Fig. 2 is a detached view of the platen. Fig. 3 is a perspective view of the head or top of the press, with the looped iron bars detached from the shoes on the platen and the platen turned back so as to leave the whole press open for greater convenience in filling the same with cotton.

In the accompanying drawing like letters designate like parts.

The nature of this invention relates to improvements in the construction of a cotton-press, whereby the press is greatly strengthened, is made less cumbersome and more easily operated, the press being more easily filled with cotton, and the bale more readily removed when pressed. The invention consists: First, in the construction and arrangement of straining-rods of iron and iron trusses, in combination with the bed and platen. Second, in the peculiar construction and arrangement of the various parts, as more fully hereinafter described.

In the accompanying drawing, A is the body of the press and B is the head, into which the cotton is thrown loose through the openings in the head or top thereof. C is a platen, provided with journals *a* upon the ends of the cross-timbers *b*, said journals being designated to engage with the loops *c*, which in turn are secured to the top of the frame which supports the press in such a manner that the platen may be opened and turned back at pleasure. The center cross-bar D, which is designed to stiffen and strengthen the platen, is in its turn further stiffened and prevented from springing under pressure by the iron truss E, the outer ends of which pass through

and are secured by proper nuts to the metallic shoes F, which are secured upon the ends of the said bar D. The upper faces of these shoes are semicircular in form, and are provided with grooves *d*. The bed G is stiffened by the truss K, and in the bed is inserted the nut L, which is provided with sockets I, into which the levers J are inserted for the purpose of giving a rotary motion to the nut, thereby elevating or lowering the screw H, to the top of which the follower (not shown) is attached. The ends of the truss K pass through the metallic shoes M, which are secured at each end of the timbers forming the bed G. N is a double straining-rod, the upper end of which is looped, as shown, while the lower ends pass vertically through the shoes M and are secured by suitable nuts.

When it is desired to fill the press the follower is run down to or near the bottom of the body, the looped ends of the straining-rod N are disengaged from the groove *d* in the shoes E of the platen, which is then thrown back, as in Fig. 3, leaving the mouth open for greater facility in filling the press. After the press is filled the platen is closed down, as shown in Fig. 1, and the loops of the straining-bars are engaged with the before-named grooves *d*. The follower is then driven up by means of the nut and screw, and the cotton is compressed into the head of the press, when it is baled and secured in the usual way.

What I claim, and desire to secure by Letters Patent, is—

1. The combination of the trusses E and K, the straining-rods N, the platen C, and the bed G, all constructed, arranged, and operating substantially as and for the purposes set forth.

2. In the cotton-press herein described and shown, the arrangement of the body A, head B, platen C provided with the truss E and shoes F, the bed G provided with the truss K and shoes M, the straining-rods N, nut L, screw H, levers J, and the follower, all constructed and operating substantially as described and shown.

JACOB B. KNIGHT.

Witnesses:

T. M. MOHRMANN,
I. E. BISSELL.