

(No Model.)

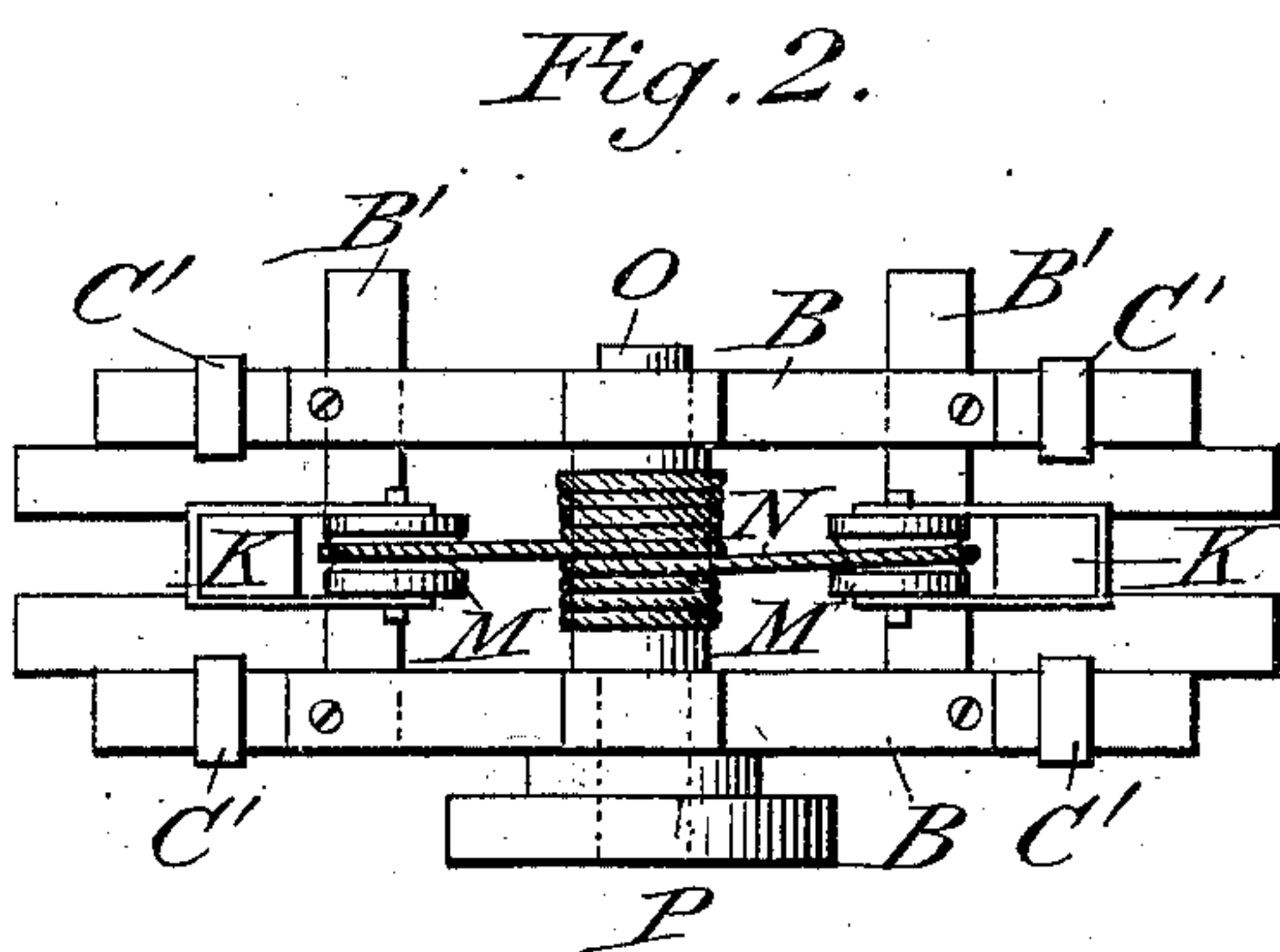
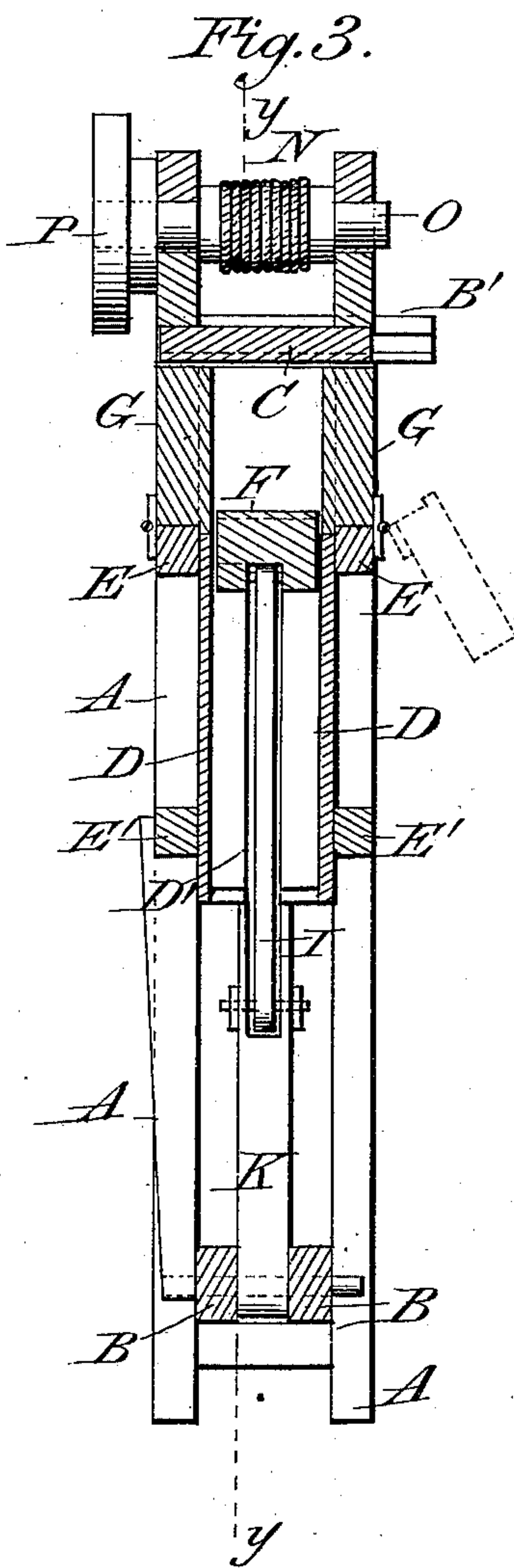
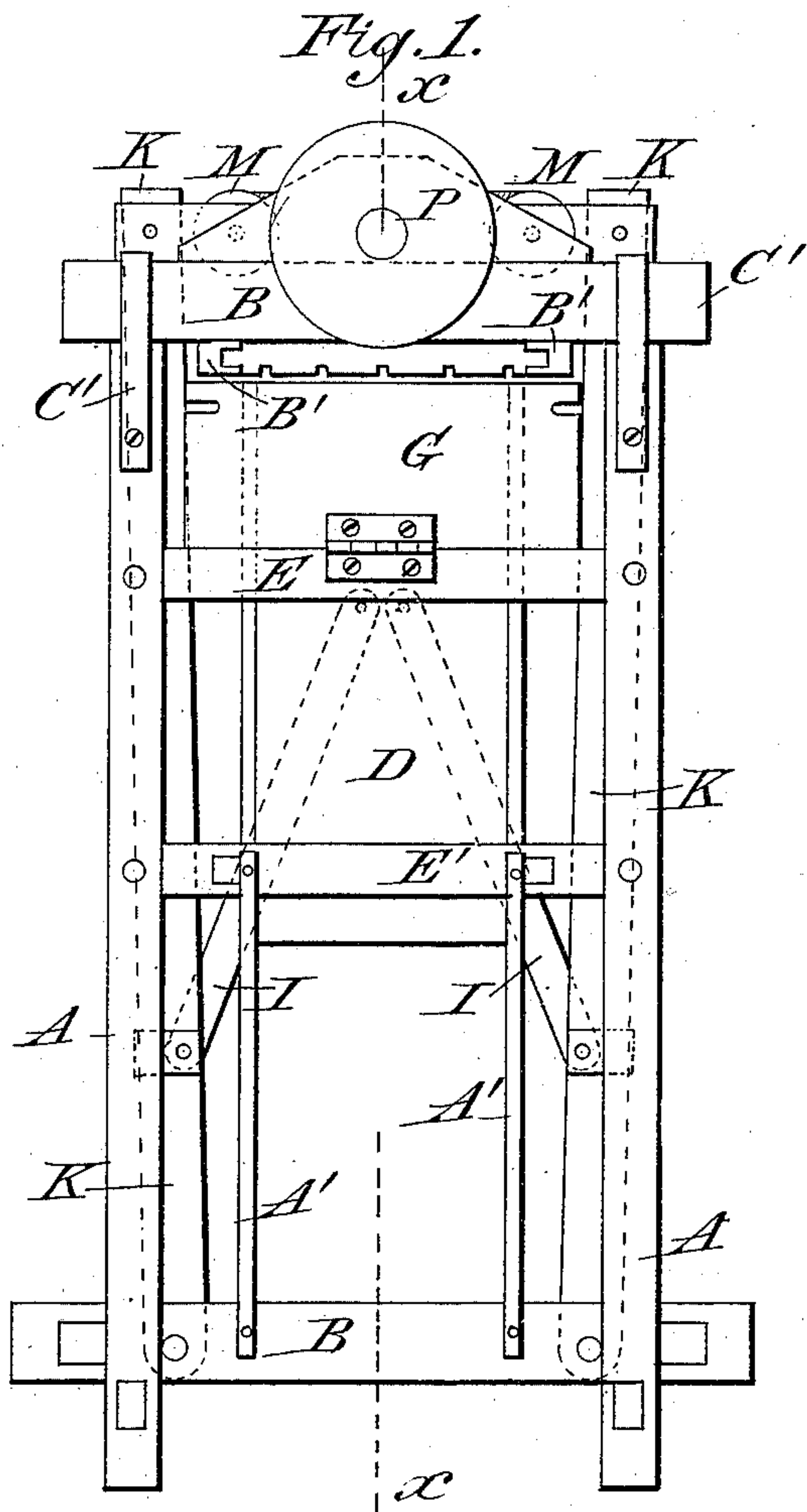
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J. W. HOBBS.

COTTON PRESS.

No. 273,080.

Patented Feb. 27, 1883.



Attest:

H. H. Schott
A. R. Brown

Inventor:

James W. Hobbs
per J. C. Jester atty.

(No Model.)

2 Sheets—Sheet 2.

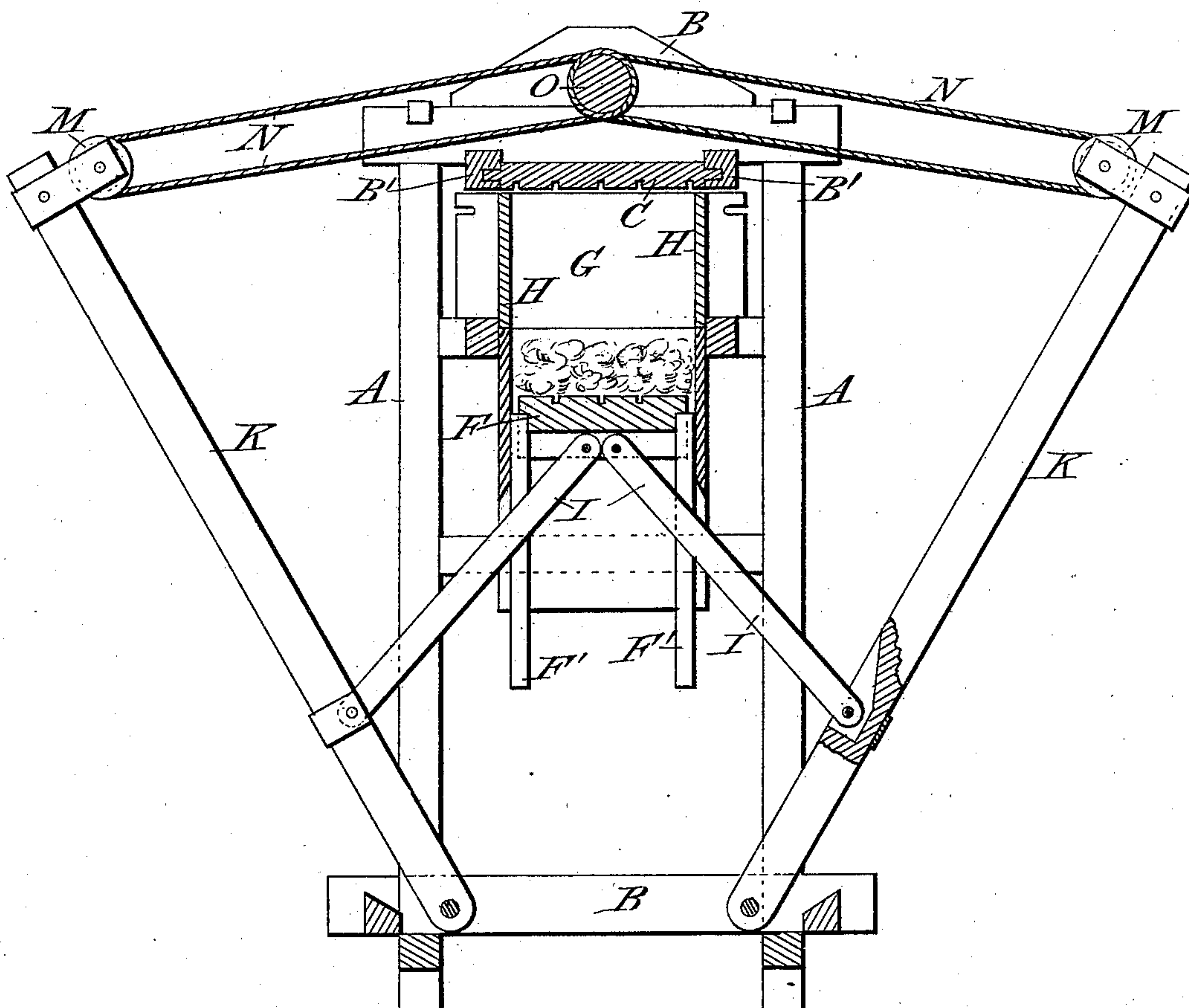
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Fig. 4.



Attest

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A. R. Brown

Inventor:

James W. Hobbs
per J. C. Tasservatt

UNITED STATES PATENT OFFICE.

JAMES W. HOBBS, OF HUNTSVILLE, ALABAMA, ASSIGNOR OF ONE-HALF
TO B. J. CURRY, OF SAME PLACE.

COTTON-PRESS.

SPECIFICATION forming part of Letters Patent No. 273,080, dated February 27, 1883.

Application filed September 1, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. HOBBS, a citizen of the United States, residing at Huntsville, in the county of Madison and State of Alabama, have invented certain new and useful Improvements in Cotton - Presses; and I do declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in cotton-presses; and it consists in certain novel features in the construction and arrangement of parts, as hereinafter more fully described and claimed.

In the annexed drawings, which fully illustrate my invention, Figure 1 is an elevation of my improved press. Fig. 2 is a top view of the same. Fig. 3 is a vertical section on the line *x x* of Fig. 1, and Fig. 4 is a similar section on the line *y y* of Fig. 3.

Like letters of reference are used to designate the same parts in the several views.

The frame of my improved press, which is rectangular in form and of much greater height than width or breadth, consists of four uprights, *A A*, that are connected at the bottom and top by suitable cross-pieces; *B B'*. The cross-pieces *B'*, at the top of the press, are grooved longitudinally for the reception of the removable upper platen, *C*, said platen being grooved to correspond with the cords, wires, or ties by means of which the cotton-bale is secured.

At a suitable distance beneath the upper platen, *C*, is a box or chamber, *D*, that is supported by the cross-pieces *E E'*. Within this box or chest is arranged the vertically-reciprocating platen or follower *F*, the upper surface of which is grooved, in the same manner as the platen *C*, for the reception of the bale-ties. The upper portion of the chamber *D*, beneath the platen *C*, is closed at the front and back of the press by means of doors *G G*, that are hinged to the cross-piece *E*, so as to open downward. The inner faces of these doors are grooved for engagement with the removable

end pieces, *H H*, that close the ends of the upper portion of the space between the platens. The lower platen or follower, *F*, is provided at its lower corners with downward-projecting guide-pieces *F' F'*, and is connected by means of levers or connecting-rods *I I*, attached to its lower face, with the main levers *K K*, which are pivoted in the lower portion of the press-frame. It will be seen that as the main levers *K* are raised to a vertical position the connecting rods or levers *I I*, which are pivoted thereto, and also to the follower *F*, will raise the same within the chest or chamber *D*, and thereby impart a steady and powerful pressure to the cotton that is confined within said chamber between the follower and upper platen. The upper ends of the levers *K K* are each provided with a pulley, *M*, journaled in suitable bearings, said pulleys being connected by a rope, band, or chain, *N*, with a drum, *O*, that is journaled centrally in the top or cap of the press, and provided with a pulley, *P*, for operating said drum by any suitable power. When the follower *F* is lowered by revolving the drum *O*, so as to permit the levers *K K* to assume the position shown in Fig. 4, a space will be formed within the chest *D*, above said follower, for the reception of the cotton to be pressed. The bale-ties being placed in position within the grooves formed in the face of the follower and platen, and the box or chest being filled with cotton, the doors *G G* are closed and secured and the drum *O* revolved, so as to operate the levers *K* and *I* for the purpose of causing the follower to ascend and apply the necessary pressure to the cotton confined between it and the upper platen. It will be observed that the levers *I I* operate in the spaces between the guides *F' F'*, and in slots or ways *D'*, formed in the sides of the chest *D*, the levers being thereby caused to operate steadily, while the guides *F'* also steady the follower *F* in its upward movement. The cross-pieces *E'*, supporting the lower end of the box *D*, are braced by the vertical supports *A' A'*, that also serve to hold the follower-guides *F' F'* in place when the follower is lowered. The upper portion of the press-frame is firmly secured by means of metallic straps *C'*, attached to the uprights and cross-pieces.

By means of this press an effective application of power in the operation of baling cotton is readily accomplished, and, owing to the simple manner in which the several parts are constructed and arranged, it will be seen that great strength is combined with compactness of form and economy in space.

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

1. In a cotton - press, the combination of the frame A B, grooved cross-pieces B' B', removable upper platen, C, box or chest D, and follower F, substantially as shown and described.

2. In a cotton-press, the combination of the frame A B, grooved cross-pieces B' B', removable upper platen, C, supported therein, the

chest D, having doors G and removable side pieces, H, the follower or lower platen, F, having guides F' F', the main levers K K, pivoted to the lower part of the frame and provided at their upper ends with pulleys M M, the levers I I, connecting said main levers with the lower part of the follower, the drum O, journaled in the top of the frame and provided with pulley P, and the chain or rope N, connecting said pulleys, all substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES W. HOBBS.

Witnesses:

JOHN RENAHER,
JNO. H. BROWN.