

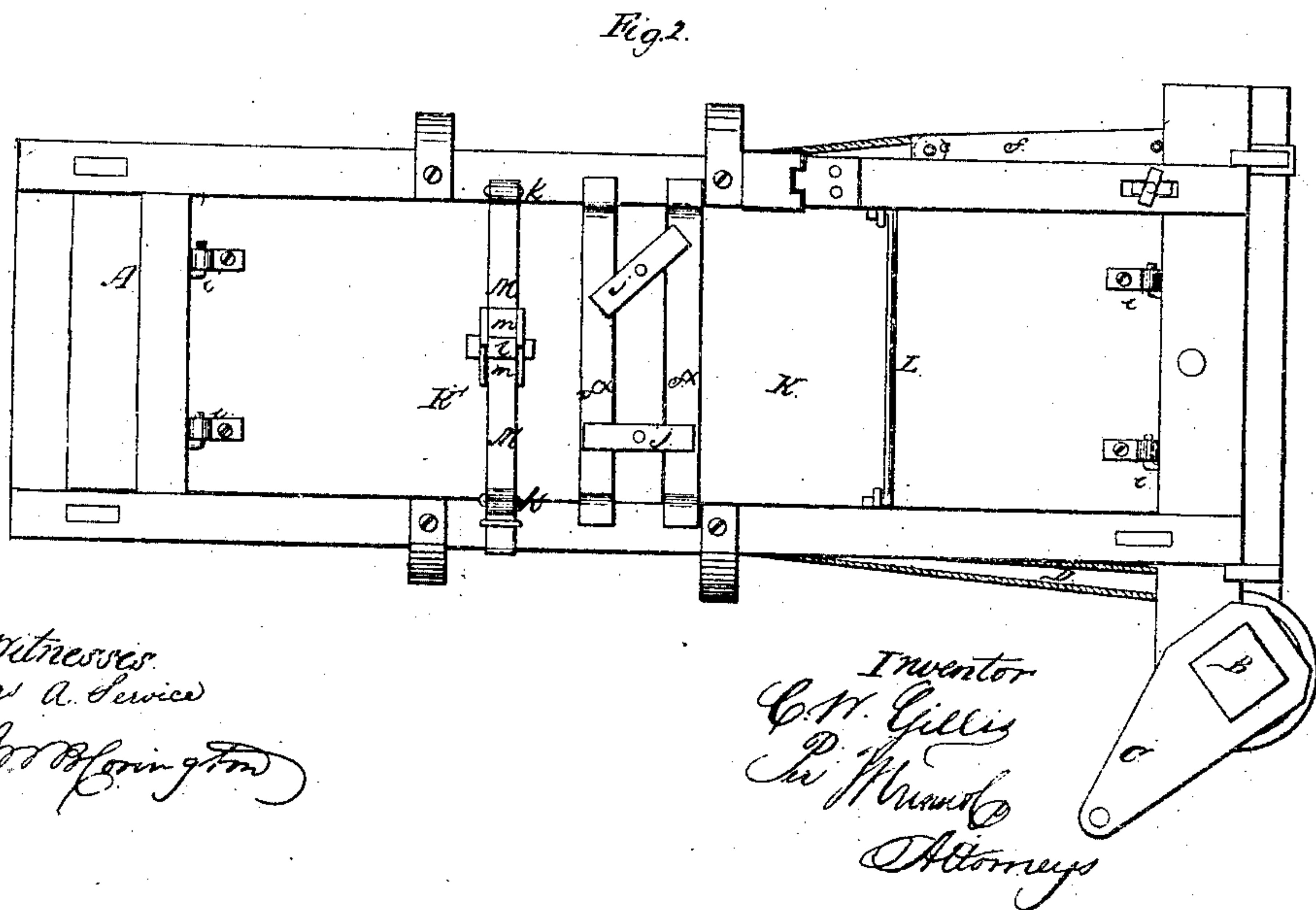
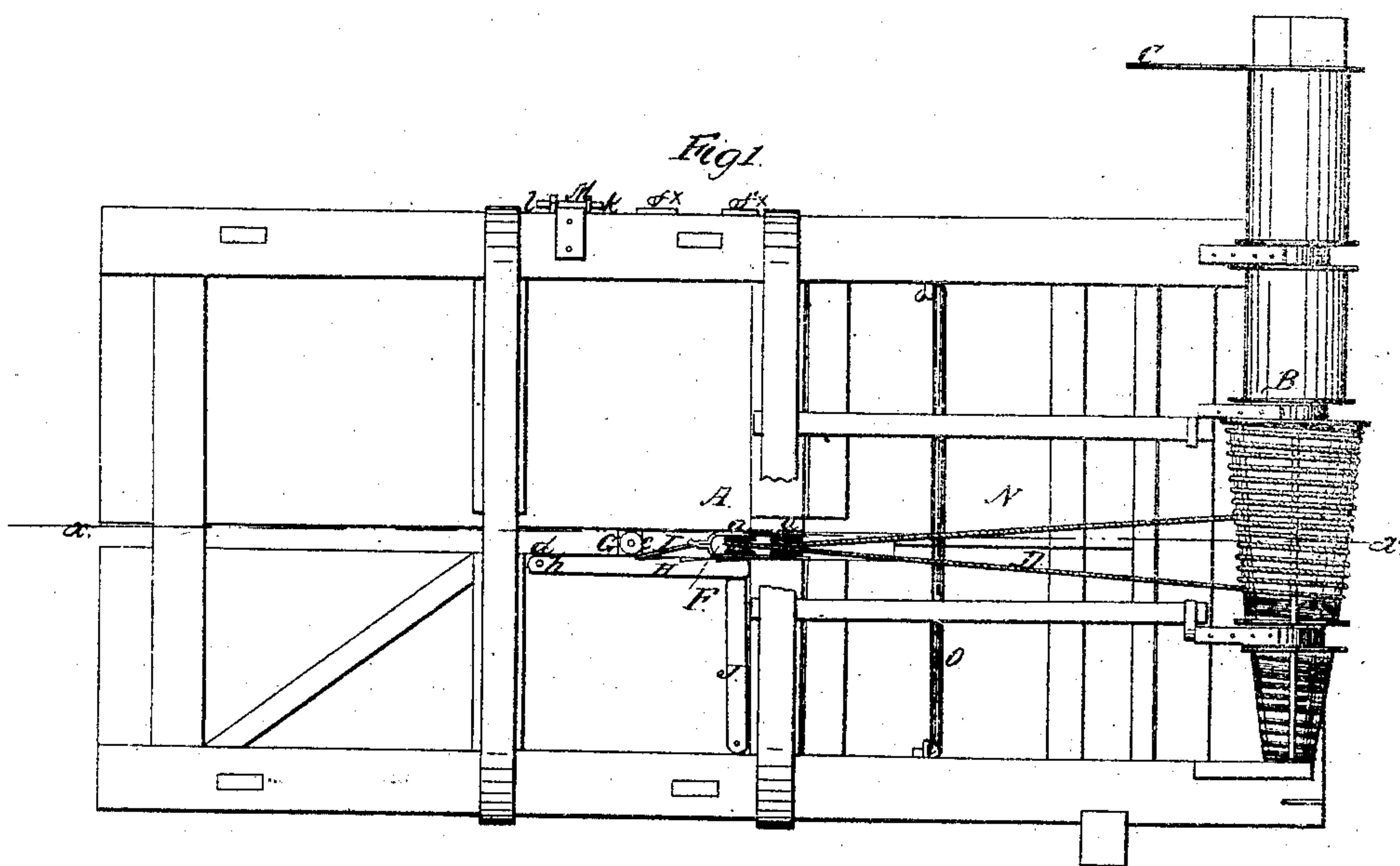
C. W. Gillis.
Cotton Press.

2 Sheets. Sheet 1.

Cotton Press.

N^o 59,832.

Patented Nov. 20, 1866.



Witnesses:
 Jas A. Service
 Geo W. Springton

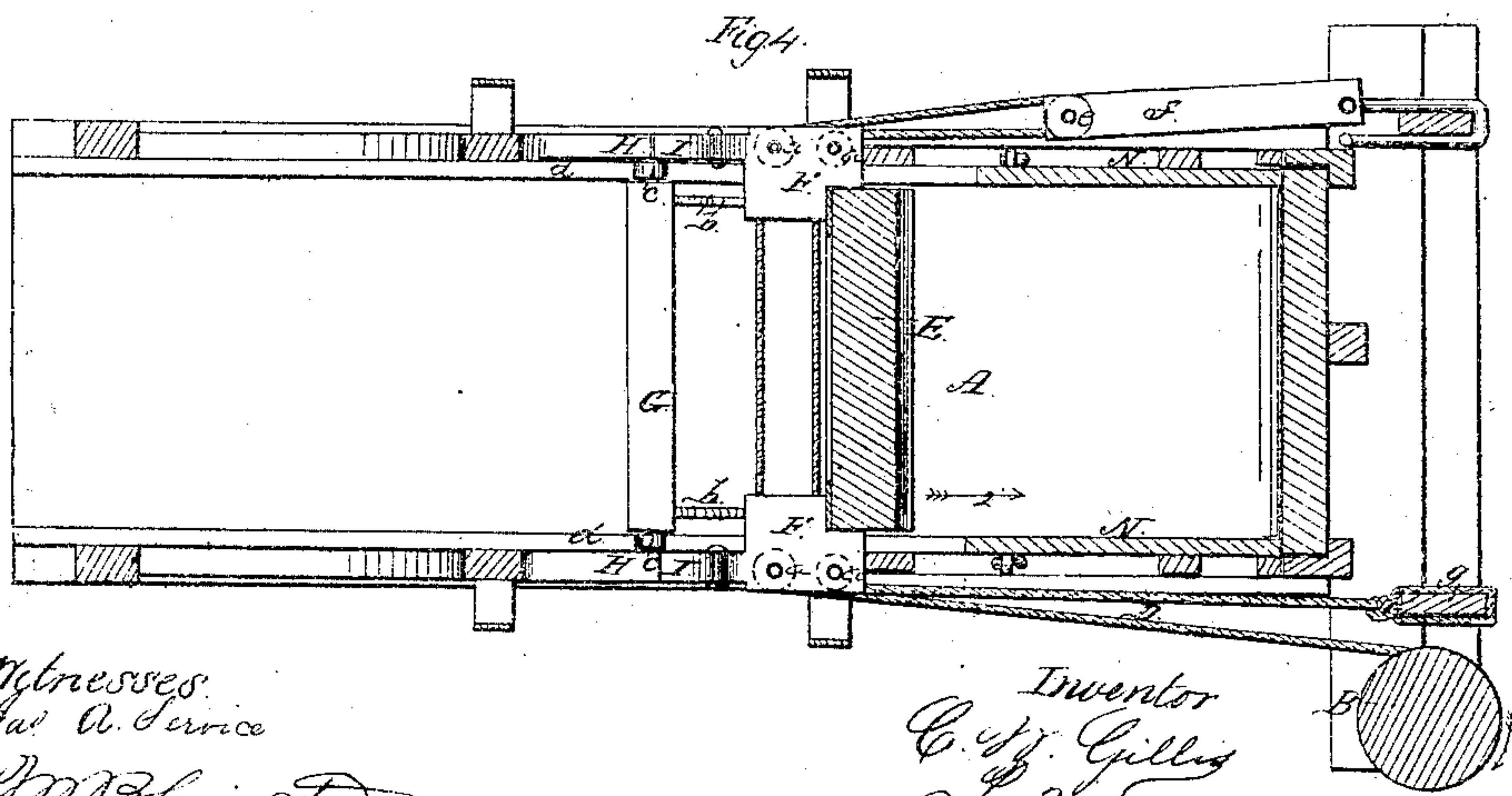
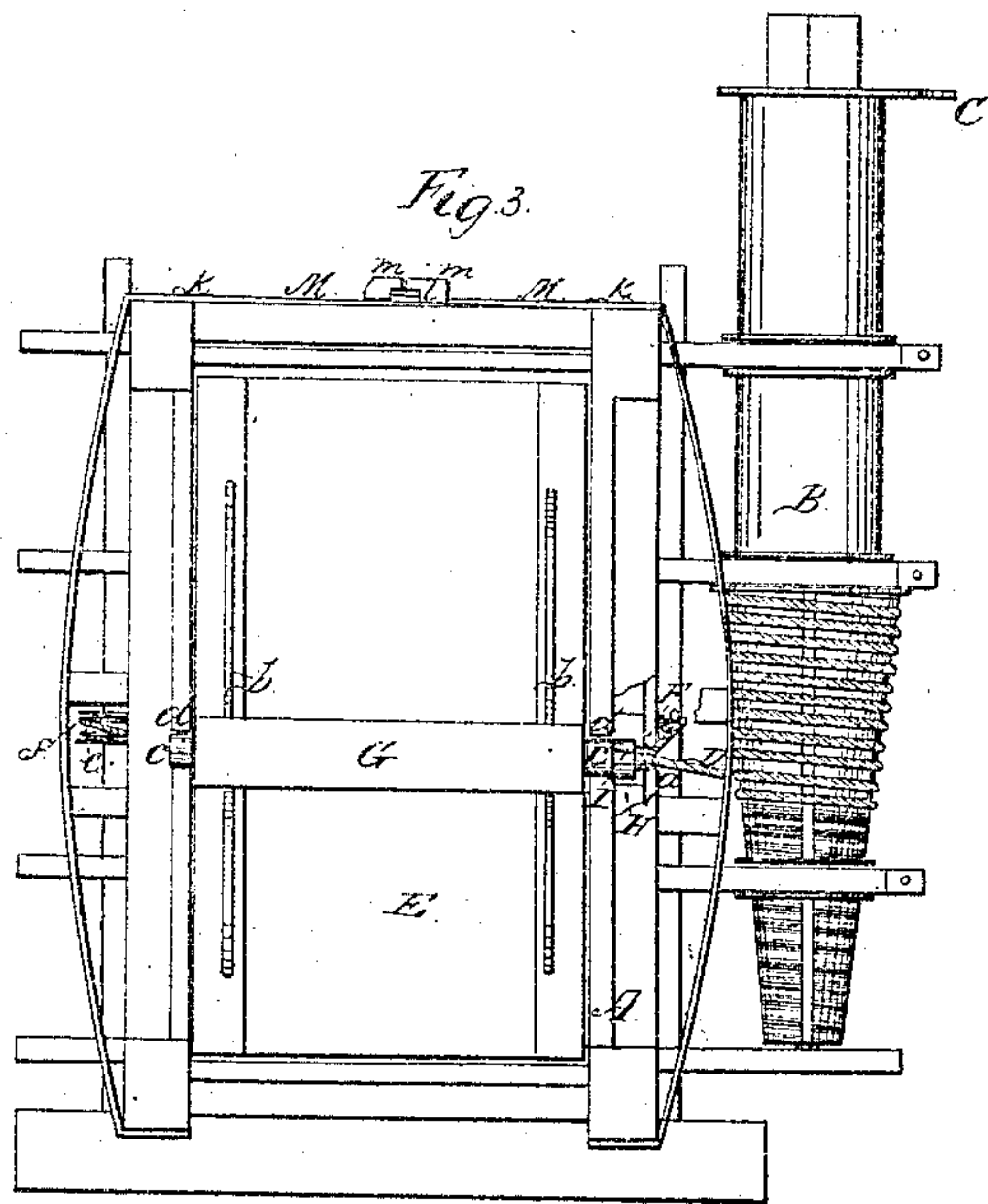
Inventor
C. M. Gillis
By H. H. H. H.
Attorneys

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Cotton Press.

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Witnesses
for A. Service
Wm H. Livingston

Inventor
C. W. Gillis
Per Munn & Co
Attorneys

United States Patent Office.

IMPROVEMENT IN BALING PRESS.

C. W. GILLIS, OF SAN ANTONIA, TEXAS.

Letters Patent No. 59,832, dated November 20, 1866.

SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, C. W. GILLIS, of San Antonio, in the county of Bexar, and State of Texas, have invented a new and improved Baling Press, and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1, sheet No. 1, is a side view of my invention.

Figure 2, a plan or top view of the same.

Figure 3, sheet No. 2, an end view of the same.

Figure 4, a horizontal section of the same, taken in the line xz , figure 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved press for compressing cotton, hay, and other substances for baling, and it consists in a novel manner of applying power to the follower or plunger, and in a novel manner of securing and arranging the doors, as hereinafter fully shown and described, whereby a very simple and efficient press for the purpose specified is obtained.

A represents the press box, which is of oblong form, and has a horizontal position, with an upright windlass B at one end of it, said windlass having a sweep C on its upper end. This windlass has its lower part of cone form, and grooved for a rope, D, to work around; see figures 1 and 3.

Within the press box A the follower or plunger E is fitted, and works said follower or plunger, having a socket, F, secured to each side of it, in which two rollers, a , are placed, one directly in front of the other, and the follower or plunger has rods, b , attached to its rear side with a bar G secured to them, the ends of the latter having friction rollers, c , applied, which work in grooves, d , in the sides of the press box. This bar serves to steady the follower or plunger.

The rope D is attached at one end to the cone portion of the upright windlass B, and passes through the press box transversely, at the rear of the follower or plunger, and around the rear rollers a , and then around a roller, e , in a bar, f , which is attached to the front end of the press box, at the side opposite to that where the windlass B is attached; see figure 4. The rope then passes again transversely through the press box, around the front pulleys a , and is attached to a post, g , at the front of the press box, near windlass B.

By this arrangement it will be seen that by turning the windlass in the direction indicated by arrow 1, the follower or plunger will be operated or moved in the direction indicated by arrow 2, and by an extremely simple arrangement of means. The follower or plunger also has an equal bearing upon it, and will not be liable to be tilted or canted at one side, or out of a plane at right angles with the press box, hence there will be no unnecessary friction to contend with in the operation of the follower or plunger, as is the case, in a greater or less degree, with other mechanism or means now used for the same purpose; and the device or mechanism contains no parts liable to get out of repair or become deranged by use.

To each side of the press box A, there is attached by a pivot h , a rack H, into which pawls I, secured to the rear of the sockets F, catch, as the follower or plunger is moved forward to its work. The racks H are held up to a horizontal position by bars J, and by this means the follower or plunger is held to its work or prevented from slipping back when the power is detached from the windlass, or ceases to be applied to it.

In moving the follower or plunger back, the bars J are lowered, and the racks H let down, so as to be out of the way of the pawls.

At the top of the press box there are two doors, K K', through which the press box is filled. These doors are hung at one end upon hinges, i , and they are provided at their opposite ends with battens, f^* , which rest upon the sides of the press box, see fig. 2, and are secured down upon the same by buttons, j . In addition to these buttons, a cross-rod L is placed across one door K, and two bars, M M, are placed across the other door K', said bars M M being connected to the sides of the press box by hinges k , and lapping one over the other, are secured by a key, l , driven through a slot in lips m , on said bars.

There is also a door, N, at each side of the press box, secured by bars, O. These side doors admit of the bale being readily bound and removed from the press box.

The whole arrangement is extremely simple and efficient, may be constructed at a moderate cost, is quite portable, and may be applied in all cases where any baling press may be used.

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

1. The upright windlass B, with rope D attached, in combination with two rollers *a*, fitted in sockets F at each end of the follower or plunger E, and the roller *e* in bar *f*, all arranged substantially as and for the purpose set forth.

2. The bar G attached to the follower or plunger E, with rollers *c* at its ends, working in grooves *d* in the sides of the press box, substantially as and for the purpose specified.

3. The adjustable or pivoted racks H, in combination with the pawls I, and the bars J, all arranged and applied to operate in the manner substantially as and for the purpose set forth.

4. The securing of the doors K K' in a closed state, by means of the battens *f**, buttons *j*, in connection with the hinged bars M M, provided with slotted lips *m*, with a key *l* driven in them, substantially as shown and described.

C. W. GILLIS.

Witnesses:

JAMES BAILIE,
LEV. SUTHERLAND.