

(No Model.)

J. A. HAMPTON.

BALING PRESS.

No. 309,387.

Patented Dec. 16, 1884.

Fig. 1.

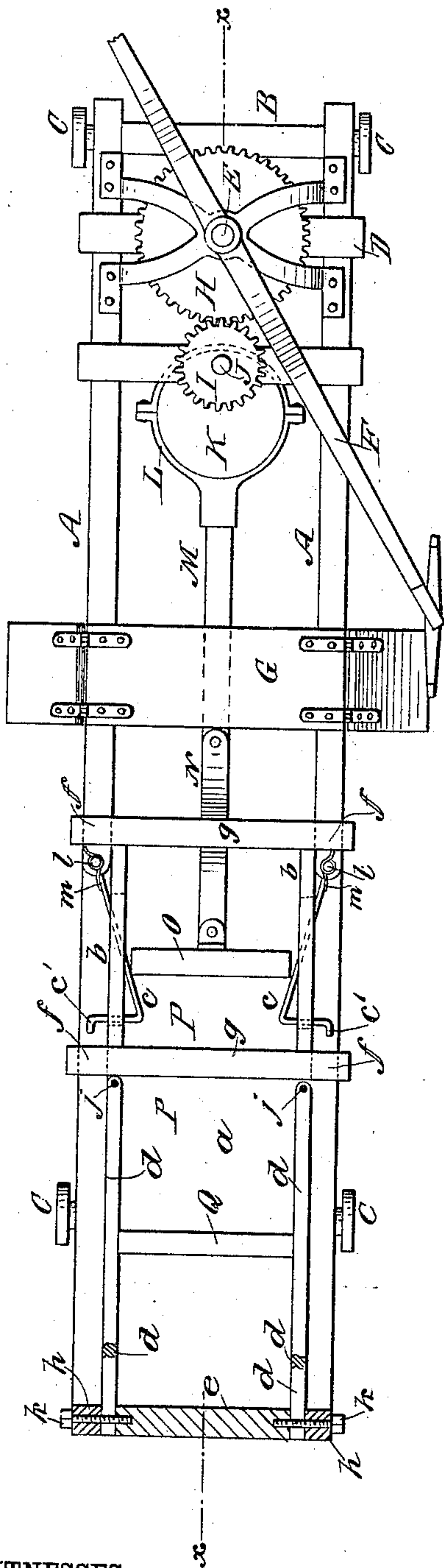
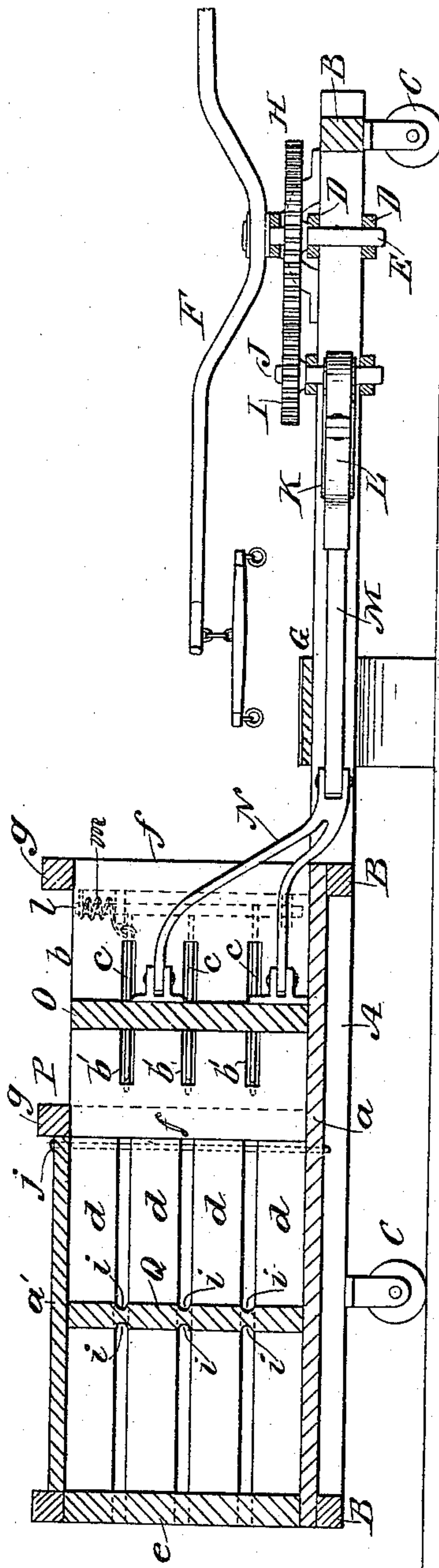


Fig. 2.



WITNESSES:
John H. Deemer
C. Sedgwick

INVENTOR:
J. A. Hampton
BY Munn & Co
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN ANDREW HAMPTON, OF HOUSTON, TEXAS.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 309,387, dated December 16, 1884.

Application filed July 16, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. HAMPTON, of Houston, Harris county, Texas, have invented a new and Improved Baling-Press, of which the following is a full, clear, and exact description.

This invention relates to certain improvements in portable and stationary baling-presses more especially designed for baling hay; and the invention consists in the construction, arrangement, and combination of parts, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

Figure 1 is a partly-sectional plan view of my new and improved baling-press, and Fig. 2 is a sectional elevation of the same, taken on the line *x x*, Fig. 1.

The main frame of the press is composed of the side bars, *A A*, and the cross-pieces *B B*, which in this instance are mounted upon the four wheels *C*.

Journaled in the cross-pieces *D D* is the vertical shaft *E*, which is adapted to be revolved by the sweep *F*, the bridge *G* being provided for the horse or horses or persons turning the sweep to pass over the main frame of the press.

Keyed to the vertical shaft *E* is the large cog-wheel *H*, which meshes with the smaller cog-wheel *I*, keyed to the vertical shaft *J*, to which latter shaft is secured the eccentric *K*, which is connected by yoke *L*, rod *M*, and bent arms *N* to the follower *O*, placed in the press-box *P*. The press-box *P* is composed of the bottom board, *a*, top board or cover, *a'*, side boards, *b b*, which are slotted, as shown at *b' b'*, to receive the retainers *c c*, the side slats, *d d*, end board, *e*, stationary posts *f f*, the tie-bars *g g*, and the movable uprights *h h*, secured to the outer ends of the side slats, *d d*.

Q is a division-board adapted to be placed between the side slats, *d d*, for separating the bales, and it is formed with the grooves *i i* in both sides for the passage of the wires for tying the bales. The inner ends of the slats *d d* are hinged in the machine upon the vertical rods *j j*, and at their outer ends they are held to the side edges of the end board, *e*, by the screw rods or bolts *k k*, which may be turned for spreading the side slats, *d d*, to facilitate

the discharge or removal of the bales when pressed and tied. The retainers *c c* are preferably bent rods of iron, and preferably six in number—three on each side of the machine—arranged to automatically retain each charge of hay or other material being baled as it is forced forward by the follower *O* while the follower *O* recedes to receive and press forward another charge of material. The retainers are attached rigidly to the vertical rods *l l*, to which the coiled springs *m m* are applied in such a manner as to tend to hold the retainers *c c* constantly pressed inward toward the interior of the press-box *P*, as shown in Fig. 1, so that as each charge of material is pressed forward the retainers will yield and permit the material and the follower *O* to pass, but will instantly come back to place and retain the charge of material when the follower *O* is drawn backward for another charge of material. The inward movement of the retainers is limited by the bent ends *c'* of the retainers coming against the outside of the side boards, *b b*, of the press-box.

The operation of the press is as follows: A priming-bale will first be placed in the press-box *P* back of the division-board *Q*. The sweep *F* being now revolved, the gear-wheels *H I* will cause the shaft *J* and eccentric *K* to revolve, which latter, acting through yoke *L*, rod *M*, and hinged connecting-arm *N*, will cause the follower *O* to be reciprocated back and forth in the press-box *P* once, twice, or more for every revolution of the sweep *F*. The material to be baled will be fed into the press-box *P* in front of the follower *O* between the tie-bars *g g* and side boards, *b b*. Each forward movement of the follower *O* will press the material before it back against the division-board *Q*, the retainers *c c* holding each charge as the follower recedes, as above described. A bale of sufficient size having been thus compressed by the follower against the division-board *Q*, the screws *k k* may be turned and the priming-bale removed from the press-box, and the board *Q* removed and the new bale shifted back to the rear of the press-box, and the board *Q* placed in front of it and the operation repeated, forming another bale, when the completed bale is to be tied. By the use of the board *Q* the bales may be made cubical in form, which

is a much more convenient form to handle and store than the ordinary form of bales, and by the use of the automatically-acting retainers *c* no difficulty will be experienced from backward movement of the material while successive charges are being filled into the press-box. Besides these advantages, the machine is convenient, easy to handle, is cheap and durable, and rapid in its action.

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

1. In a baling-press, the combination, with the press-box *P*, having slotted side bars, of the vertical rods *l*—one on each side of the
15 press—the series of retaining-rods *c*, secured to

said rods and bent at *c'*, to limit the inward movement of said rods, and springs *m*, for pressing the rods inward, substantially as set forth.

2. In a baling-press, the press-box *P*, having a fixed end, *e*, in combination with the swinging slats *d*, pivoted, as shown at *j*, and the screws *k*, for securing the swinging slats to the end *e*, substantially as set forth. 20

3. In a baling-press, the division-board *Q*, provided with grooves *i* on its opposite sides, 25 for the purpose set forth.

JOHN ANDREW HAMPTON.

Witnesses:

M. F. DE BAJLIGETHY,

R. LOCKART, Jr.