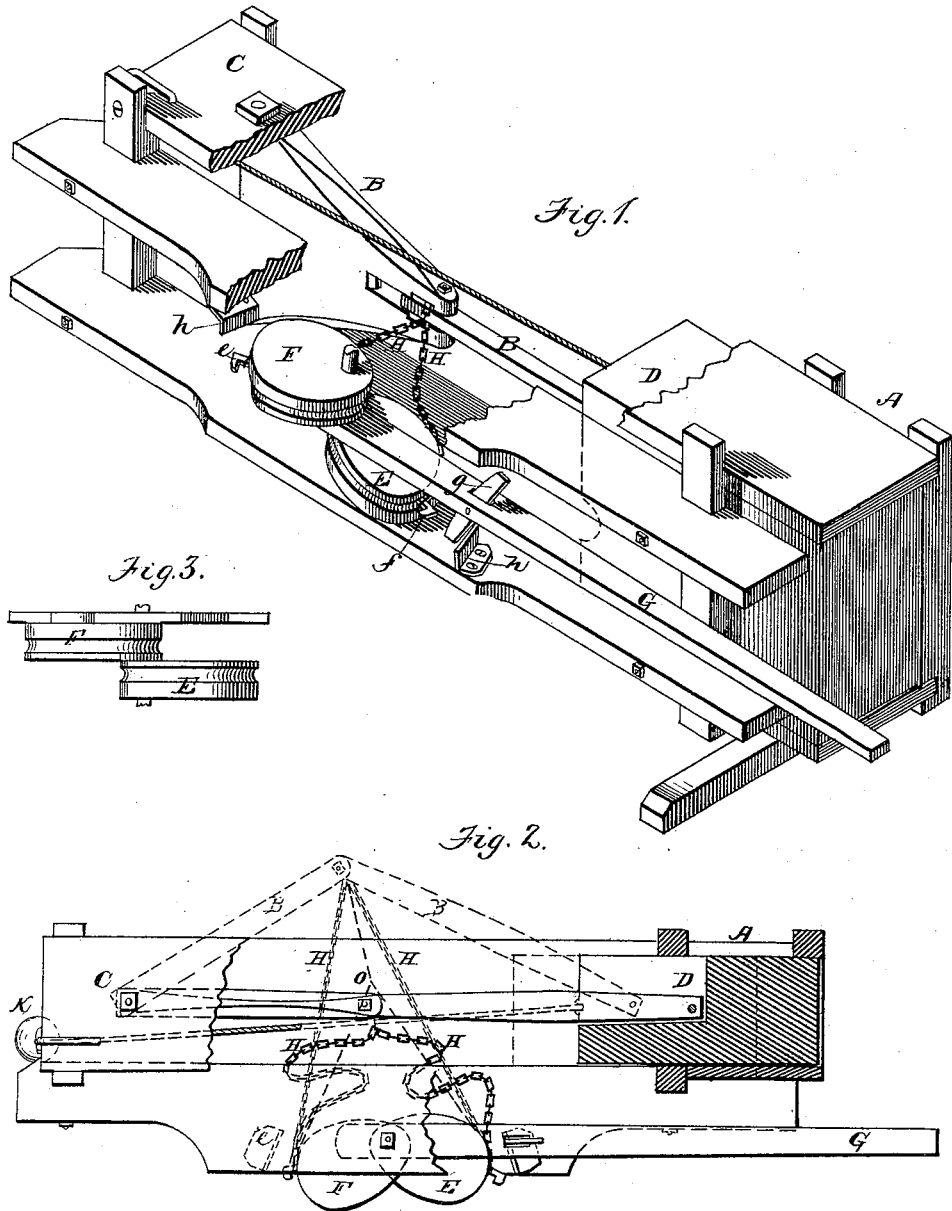


P. K. DEDERICK.
Baling-Press.

No. 205,734.

Patented July 9, 1878.



Witnesses

Harry King
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UNITED STATES PATENT OFFICE.

PETER K. DEDERICK, OF ALBANY, NEW YORK.

IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. 205,734, dated July 9, 1878; application filed June 11, 1878.

To all whom it may concern:

Be it known that I, PETER K. DEDERICK, of Albany, New York, have invented certain Improvements in Baling-Presses, of which the following is a specification:

My improvements relate to the power and manner of operating baling-presses, particularly that class forming the bale in sections, and for which Letters Patent were granted me October 29, 1872, No. 132,566 and No. 132,639, and the various modifications of the same patented by me since that date. This power is also applicable to any other form of press.

Figure 1 is a perspective view, illustrating the power of the press. Fig. 2 is a top view of the same. Fig. 3 is a modification, showing the cams joined together.

The frame of the press may be constructed as shown, or in any suitable manner. The feed-orifice A is shown at the side of the press, but may be at the top, if desired. The bale-chamber may be of any suitable form; hence not shown in the drawings.

B B is the toggle, with the one end secured at the foot of the press C and the other end secured within the traverser D. E is a right cam or eccentric, and F is a left cam or eccentric, both located at the side of the press, and having the horse-lever G working between them. H H are chains, the one connecting the toggle to the right-hand and the other to the left-hand cam. Instead of connecting two chains to the toggle, one may be secured thereto and forked, so as to attach to the right and left cams, as shown by the dotted lines O, with same effect.

The horse-lever G is provided with a pivoted catch-bar, *g*, adapted to engage alternately with stops *e* and *f*, projecting from the right and left cams E F, respectively. Suitable guides or shifting-plates *h h* are arranged on the frame in the path of the catch-bar, for the purpose of disengaging said catch-bar from the cams at the moment the toggle is straightened out and the traverser is at the limit of its strike, and thereby enable the traverser to be reversed.

The frame of the press may be placed level; but I prefer to elevate it a little toward the baling end A, in order that the traverser may run back freely, and in addition I use a weight, K, to draw the power back. Either the elevation or the weight alone would answer the purpose, or a spring might be substituted for the weight with the same effect.

The sweep or horse-lever G, being adjustable in its connections with the cams, rotates them alternately, as follows: The movement of the lever from left to right, when it is engaged with one cam, works the toggle to or near a straight line, and the lever is then detached from the cam, as stated, and the weight, or the reaction of the pressed material, or the weight of the power in consequence of inclination of the press, or all of these combined, effect a retrograde movement of the traverser, and carry the cam back to the starting-point. Meantime the lever is engaged with the other cam and is moved in a reverse direction, thus working the toggles again and forcing another section of material into the chamber. The operation is thus continued, each half-turn pressing a section with one cam, and the reverse half-turn pressing a section with the other cam.

The manner of making the attachments between the horse-lever and cams may be varied, and will produce the same effect. The cams may also be secured together, so that one cannot move without the other, as shown in Fig. 3; but in this case the sweep must be above or below them. However, the cams may be connected at the center by a hub or shaft passing through the sweep or lever, thus leaving said lever between them. The cams and some other parts may be constructed of iron, or be strongly ironed, if preferred.

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

1. The horse-lever G, adapted to engage alternately with the right and left hand cams E F, for the purpose specified.
2. The combination, with right and left cams E F, operated from the horse-lever, of

the toggle B and suitable connecting-chains, substantially as described, for the purpose specified.

3. The cams E F, provided respectively with the projections or stops *e f*, in combination with the horse-lever G, having the pivoted catch-bar *g*, substantially as described.

4. The shifting-plates *h h*, adapted to engage and disengage the catch-bar from the cams, substantially as described.

P. K. DEDERICK.

Witnesses:

WM. BLACKSTOCK,
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