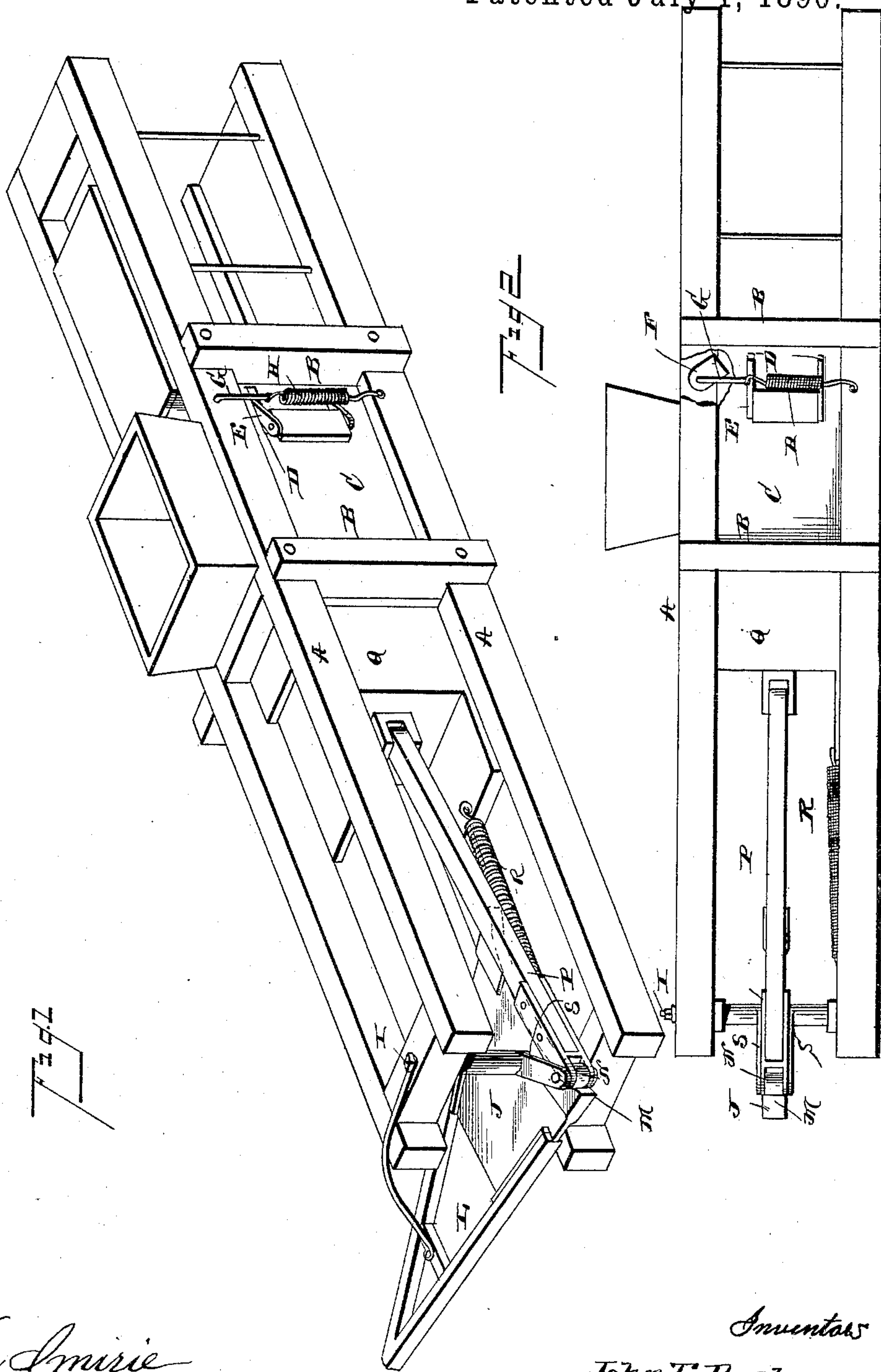


(No Model.)

J. T. & C. A. DEETS.
BALING PRESS.

No. 431,109.

Patented July 1, 1890.



Witnesses
John Smirre
R. W. Bishop.

By their Attorneys

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UNITED STATES PATENT OFFICE.

JOHN T. DEETS AND CHARLES A. DEETS, OF FARLINGTON, KANSAS.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 431,109, dated July 1, 1890.

Application filed April 10, 1889. Serial No. 306,739. (No model.)

To all whom it may concern:

Be it known that we, JOHN T. DEETS and CHARLES A. DEETS, citizens of the United States, residing at Farlington, in the county of Crawford and State of Kansas, have invented a new and useful Baling-Press, of which the following is a specification.

Our invention relates to improvements in baling-presses; and it consists in certain novel features hereinafter described and claimed.

In the annexed drawings, Figure 1 is a perspective view of our improved press. Fig. 2 is a side elevation of the same.

The frame of the press comprises the longitudinal beams A A and the standards B, secured to the outer sides of the same at about their centers, and between the standards we secure the plates or boards C, forming the sides of the baling-chamber. These boards or plates C are provided with longitudinal slots D, through which the stops E, pivoted on the outer side of the said boards or plates, project into the baling-chamber.

In the upper portion of the baling-chamber we arrange the transverse vibrating plate F, which is secured on a rock-shaft journaled in the upper beams A and having its ends bent downward, forming the crank-arms G, to which are secured the upper ends of springs H, which have their lower ends secured to the lower beams A, as shown. These springs serve to hold the said rock-shaft normally in such a position that the lower edge of the vibrating plate will be in the path of the bales, and consequently prevent the pressed material passing back into the baling-chamber. The springs, however, permit the plate to yield readily as the pressed material is forced from the baling-chamber. The said springs H also extend across and bear against the outer sides of the pivoted stops E, which are thereby forced through the slots D and held yieldingly in the path of the bale in the press-box. The king-bolt or fulcrum-pin I is mounted in the front end of the frame, and the cam-plate J is mounted on the king-bolt and has the inner end of the sweep L secured thereto. The in-

ner edge of the cam-plate is substantially concave and is provided at its ends with the shoulders or points M, which are adapted to act on a roller N at the outer end of the pitman P to operate the pitman. The inner end of the pitman is pivoted to the plunger Q, arranged in the baling-chamber, and the plunger is caused to rebound by a spring R, having its opposite ends secured, respectively, to the plunger and to the frame. The outer end of the pitman is caused to travel in a circular path by means of the crank-arms S, loosely mounted on the king-bolt above and below the cam-plate J, and having their outer ends pivotally connected with the outer end of the pitman.

In practice the hay or other material to be pressed is fed into the baling-chamber in the usual manner and the sweep then reciprocated so as to actuate the plunger. The latter presses the bale, and the detents F and E, actuated by the springs H, arranged as herein described, serve to retain the hay in the press-box.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

The combination, in a baling-press, of the press-box, the sides of which are provided with longitudinal horizontal slots, the stops or detents E, pivoted to the sides of the box and extending through said slots, the transverse rock-shaft having the detent-plate F and the crank-arms G, the springs connecting the latter with the sills of the press and bearing against the outer sides of the detents E, the rebounding-plunger, and operating mechanism, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

JOHN T. DEETS.

C. A. DEETS.

Witnesses:

J. H. SIGGERS,

R. J. MARSHALL.