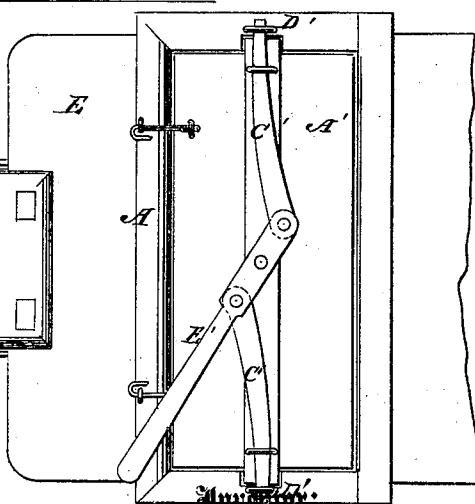
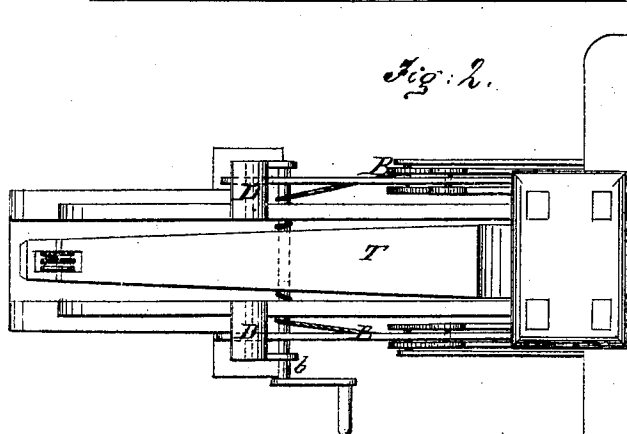
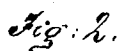


No. 138,909.

Patented May 13, 1873.



Witnesses:

Witnesses:
Chas. Nida
Sedgwick

Director:

W. H. McBurney

PER

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. MCBURNEY, OF SACRAMENTO CITY, CALIFORNIA.

IMPROVEMENT IN HAY AND COTTON PRESSES.

Specification forming part of Letters Patent No. **138,909**, dated May 13, 1873; application filed February 21, 1873.

To all whom it may concern:

Be it known that I, WILLIAM H. MCBURNEY, of Sacramento City, in the county of Sacramento and State of California, have invented a new and Improved Press for Hay and Cotton, of which the following is a specification:

The invention consists in an improvement of the operative mechanism for hay and cotton presses, as hereinafter described and pointed out in the claim.

Figure 1 is a side elevation of the apparatus for operating the follower, and a sectional elevation of the press-case and follower; and Fig. 2 is a plan view of the improved press.

Similar letters of reference indicate corresponding parts.

A is the press-case, and B the follower. C represents a pair of long levers pivoted at one end to the strong posts D, near their upper ends, the said posts rising up from the platform E a suitable distance from the front of the case, and at the other ends said levers project through slots F in the front of the case, and are connected by short links, G, with the under side of the follower. At H these levers have a bar, I, pivoted to them, the said bars being pivoted at J to the free ends of levers L, which at their other ends are pivoted to the platform at M, and between the ends, not far from the middle, they are pivoted to the bars N, at their lower ends. These bars are pivoted at their upper ends to the axis O of the upper wheel P of a pair of eccentric segmental wheels or oscillating inclined planes, arranged between the strong posts R, so that the said axis and a strong block, S, above are caused to rise by the turning of the lower wheel Q, to force up the follower, the said wheel being turned by the strong lever T, and the rope and pulleys U. The bars N may be attached to the block S instead of the axis of the wheel, if preferred. A strong strap of iron, V, is used in connection with the block and the said axis for strengthening the connection of the bars. The bars I, by which the levers C are con-

nected to the levers L, project beyond the latter, and at the extremities of these projections they are connected by a bar, W, with the middle joint of a pair of toggle-jointed bars X Y, one of which is pivoted to the frame at M, and the other to the joints of the inner end of the levers C, with the links G, by which said levers are connected to the follower. At the joints of bars W and I cords or chains, Z, are attached to pull the follower back and raise the lever T; they pass under guide-rollers *a* to a hand-crank shaft *b*, on which they are rolled by the turning of the shaft, which returns the followers. By the short movement of the wheel P, due to the eccentricity of its face and that of wheel Q, whereon it rests, a long movement is imparted to the follower in consequence of the arrangement of the levers and the connections, as above described; and in the last part of the operation, when the resistance has greatly increased, a considerable measure of the power is transmitted through the toggle-jointed bars X Y, by which the leverage is so increased that the greatest force is obtained at the time it is most needed. The eccentric wheels are notched and toothed, as shown, to prevent slipping. For fastening the removable top A', of the case, also the side-doors B', I have two sliding bolts, C', on the said doors, arranged suitably for being forced into catches D' of any kind on the frame, and connect them to a hand-lever, E', on opposite sides of the pivot of said lever, so that, by one movement of the lever, the door is fastened at both sides and by the other it is released.

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

The levers C L, connected by bars I N, the jointed bars X Y, and the eccentric wheels, combined and applied as and for the purpose described.

WILLIAM H. MCBURNEY.

Witnesses:

SAMUEL K. GAUMER,
S. R. CALDWELL.