

(No Model.)

A. WICKEY.
BALING PRESS.

No. 392,085.

Patented Oct. 30, 1888.

Fig. 1.

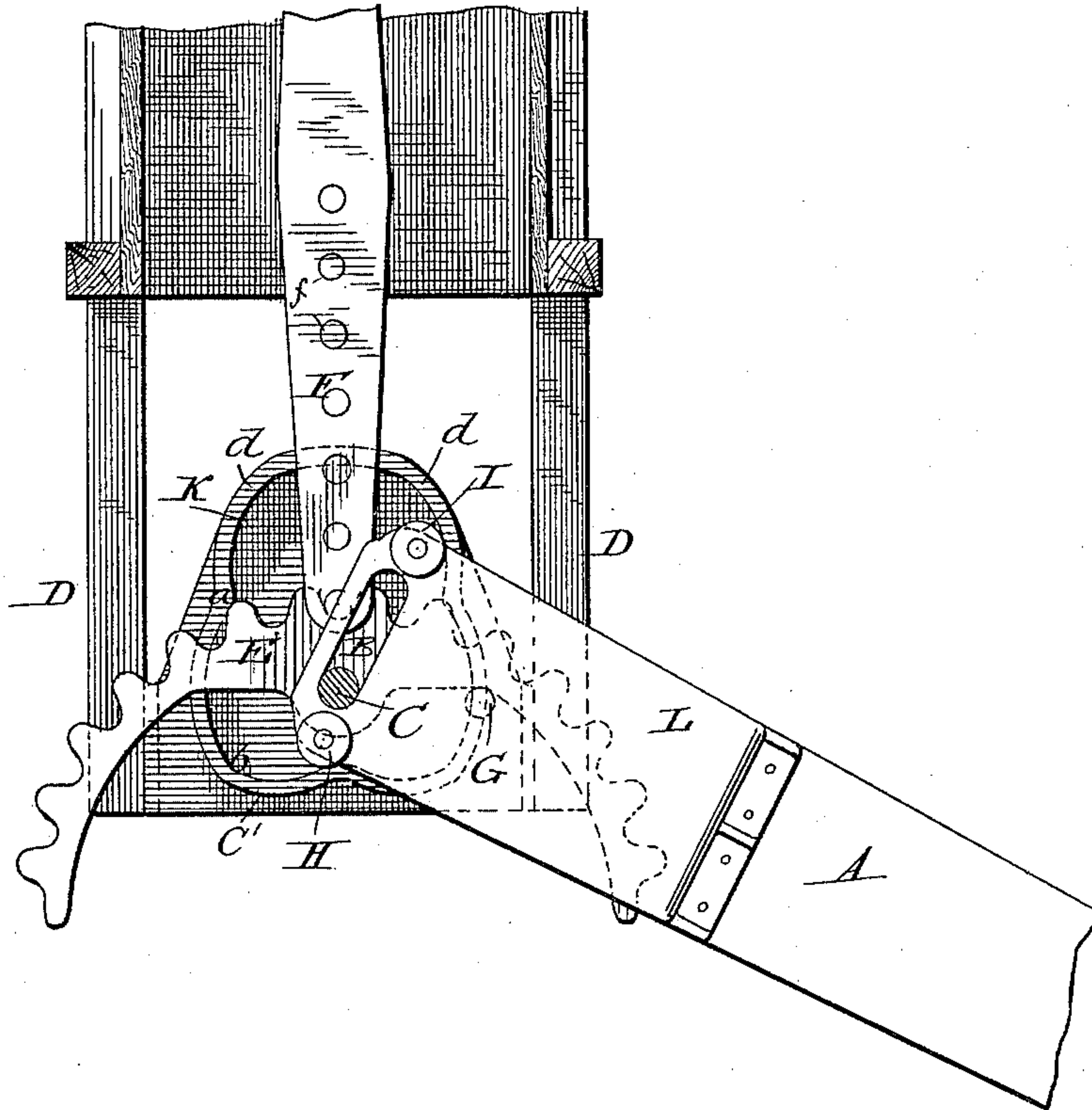


Fig. 2.

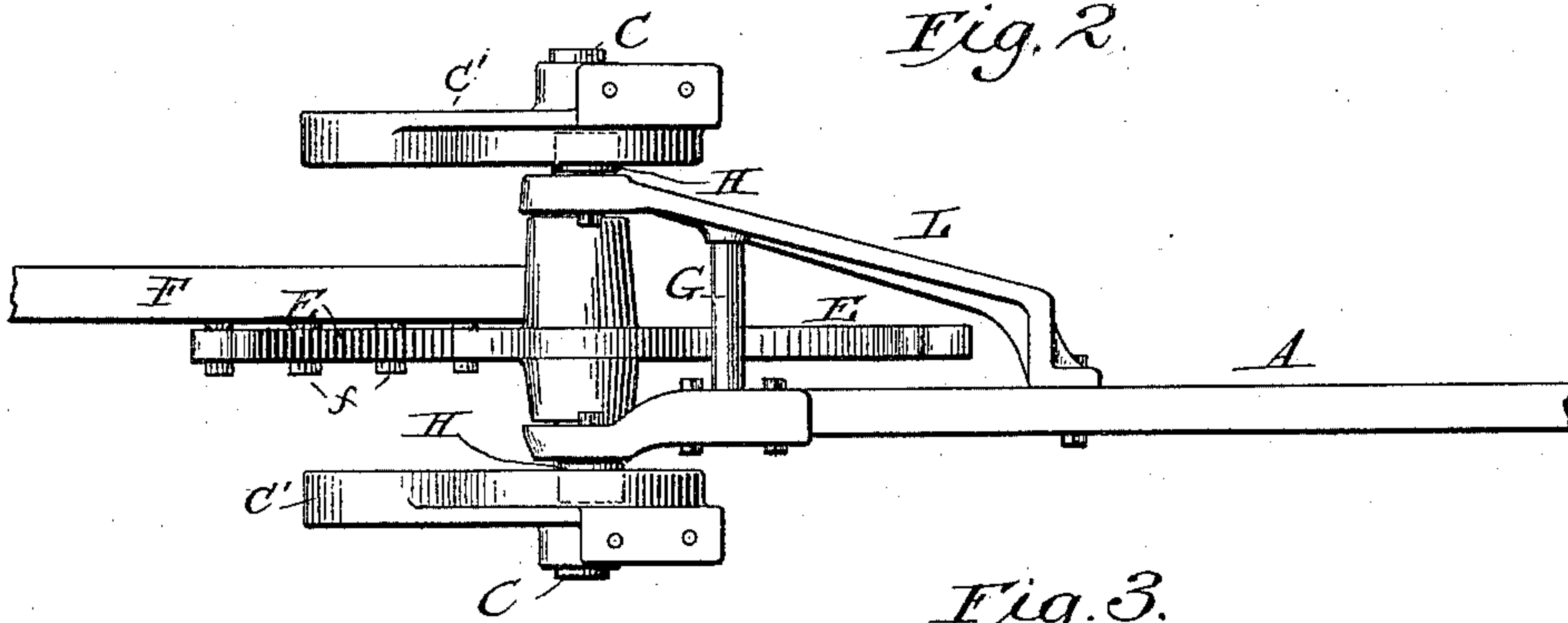
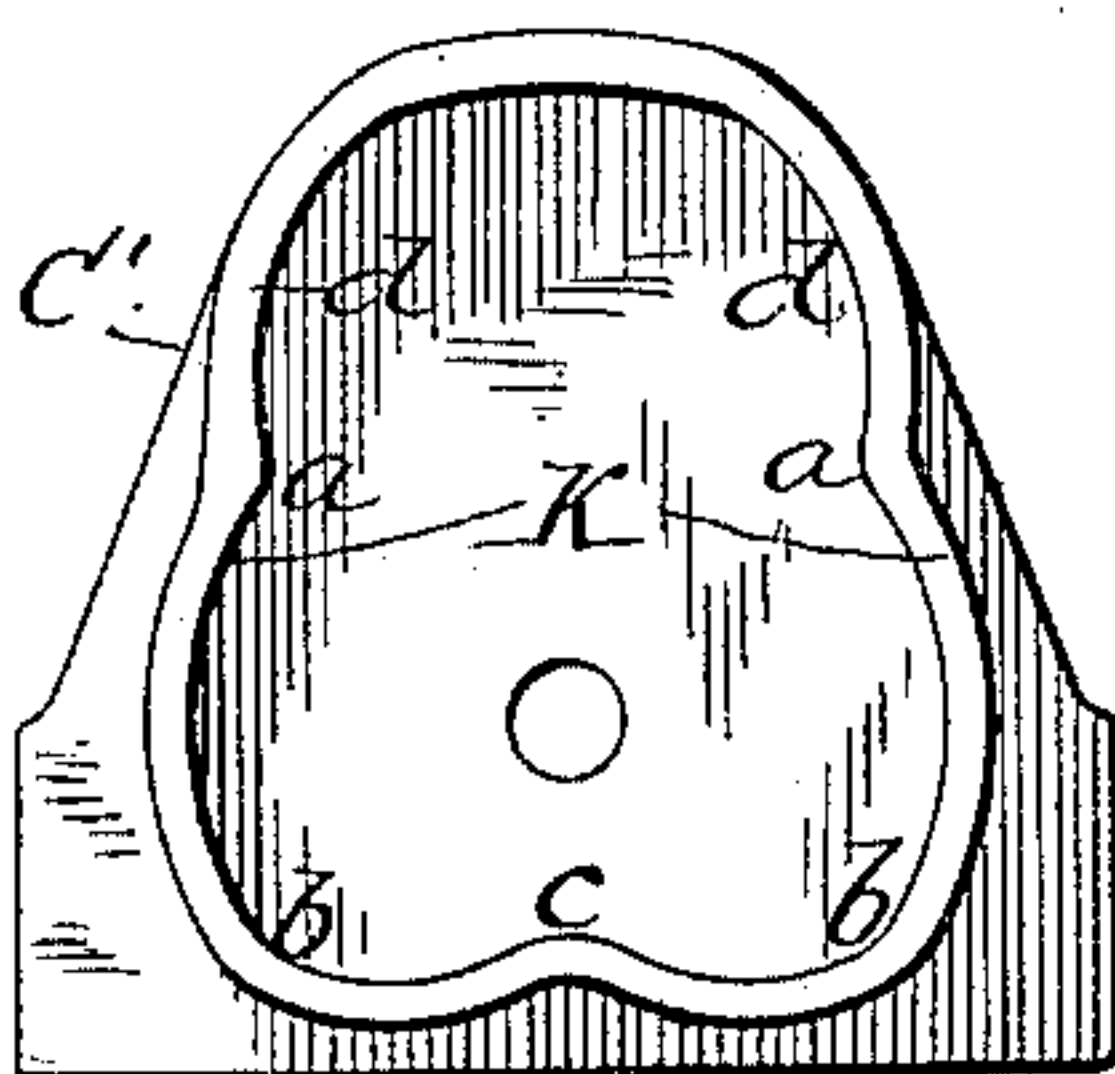


Fig. 3.



Attest:

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UNITED STATES PATENT OFFICE.

ANDREW WICKEY, OF QUINCY, ILLINOIS.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 392,085, dated October 30, 1888.

Application filed November 5, 1887. Renewed August 14, 1888. Serial No. 282,758. (No model.)

To all whom it may concern:

Be it known that I, ANDREW WICKEY, of Quincy, in the county of Adams and State of Illinois, have invented certain Improvements in Baling-Presses, of which the following is a specification.

This invention relates to that class of baling-presses known as "rebounding-plunger presses," and illustrated in Letters Patent No. 247,974, granted to A. A. Gehrt and myself October 4, 1881; and it consists of a sweep provided with a slot for the passage of the pivot-shaft, and a guide for maintaining the shaft centrally in the slot during the first part of the travel of the sweep, and for moving the sweep laterally during the latter part of its travel until the shaft is at one end of the slot, whereby the pitman is thrown beyond the center by the said lateral movement and the length of the travel of the sweep correspondingly lessened.

In the drawings, Figure 1 is a plan view of a portion of a press with my invention applied thereto. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view of one of the castings, on which are formed the guides.

The sweep A may be of ordinary construction, except that at its inner end it is provided with a lateral slot, B, through which passes the usual pivot-shaft, C, mounted in castings C', secured to the frame-timbers D of the press. On the shaft C is loosely mounted a toothed segment, E, which engages pins *f* on the pitman F; and the sweep is provided with a push-pin, G, for operating the segment, all constructed as shown in the patent before mentioned. On each side of the sweep are rollers H I, arranged to engage in a cam groove or track, K, formed on the casting C', and constructed to maintain the sweep with the pivot-shaft centrally in the slot until the pitman approaches the central line of the press, when the sweep will be moved laterally until the pivot-shaft is at one end of the slot, thereby causing the pitman to be pushed beyond the center, to be forced outward by the expansion of the material in the press, as is usual in this class of machines, without further movement of the sweep around its pivot. To cause this movement of the sweep, the cam or guide K

surrounds the shaft and is formed on each side between the points *a b* concentric with the shaft, and from each point *b* to a point, *c*, in front of the said shaft is curved on shorter radii, so that the point *c* is nearer the shaft than the points *a b*. As the rollers H I move on the parts *a b*, the shaft will remain central in the slot in the sweep; but when the roller H approaches the point *c* it will be moved toward the shaft and the sweep will be carried laterally, that portion *d* of the guide connecting the points *a a* being suitably formed to permit the roller I to move away from the shaft. The guide is similarly formed on each side of the central line of the press, and it is therefore evident that the sweep will be similarly acted upon when moved in either direction.

I prefer to strengthen and sustain the sweep by a bracket, L, secured at one end to the sweep and at the other end secured around the shaft and constructed and guided in the same manner as is the said sweep.

The invention is not confined to the exact construction and arrangement of parts shown, as the same may be varied without departing from the spirit of the invention.

Having thus described my invention, what I claim is—

1. In a rebounding-plunger baling-press, the combination of a sweep provided with a slot transverse to its length, a fixed pivot passing through said slot and around which the sweep is free to vibrate and to shift laterally, a guide to cause said lateral movement, and connections, substantially as described, between said sweep and the plunger.

2. In a rebounding-plunger baling-press, the combination of a sweep movable laterally on its pivot, with a guide for causing said movement; consisting of a track concentric with said pivot for a portion of its length and then curved on a shorter radius to a point approaching said pivot, and connections, substantially as described, between said sweep and the plunger.

3. In a rebounding-plunger baling-press, the combination of a sweep slotted for the passage of the pivot-shaft and provided with rollers, with a guide concentric with the shaft for a portion of its length and then

curved on a shorter radius to a point approaching said pivot, and connections, substantially as described, between the sweep and plunger.

4. In a rebounding-plunger baling - press,
5 the combination of a sweep movable laterally on its pivot, with a guide for causing said movement, the toothed segment E, with which the sweep engages, and the pitman F provided with pins with which the teeth of the segment
10 engage, substantially as described.

In testimony whereof I hereunto set my hand, this 17th day of August, 1887, in the presence of two attesting witnesses.

ANDREW WICKEY.

Witnesses:

ALBERT BERGER,
SAMUEL BERGER.