

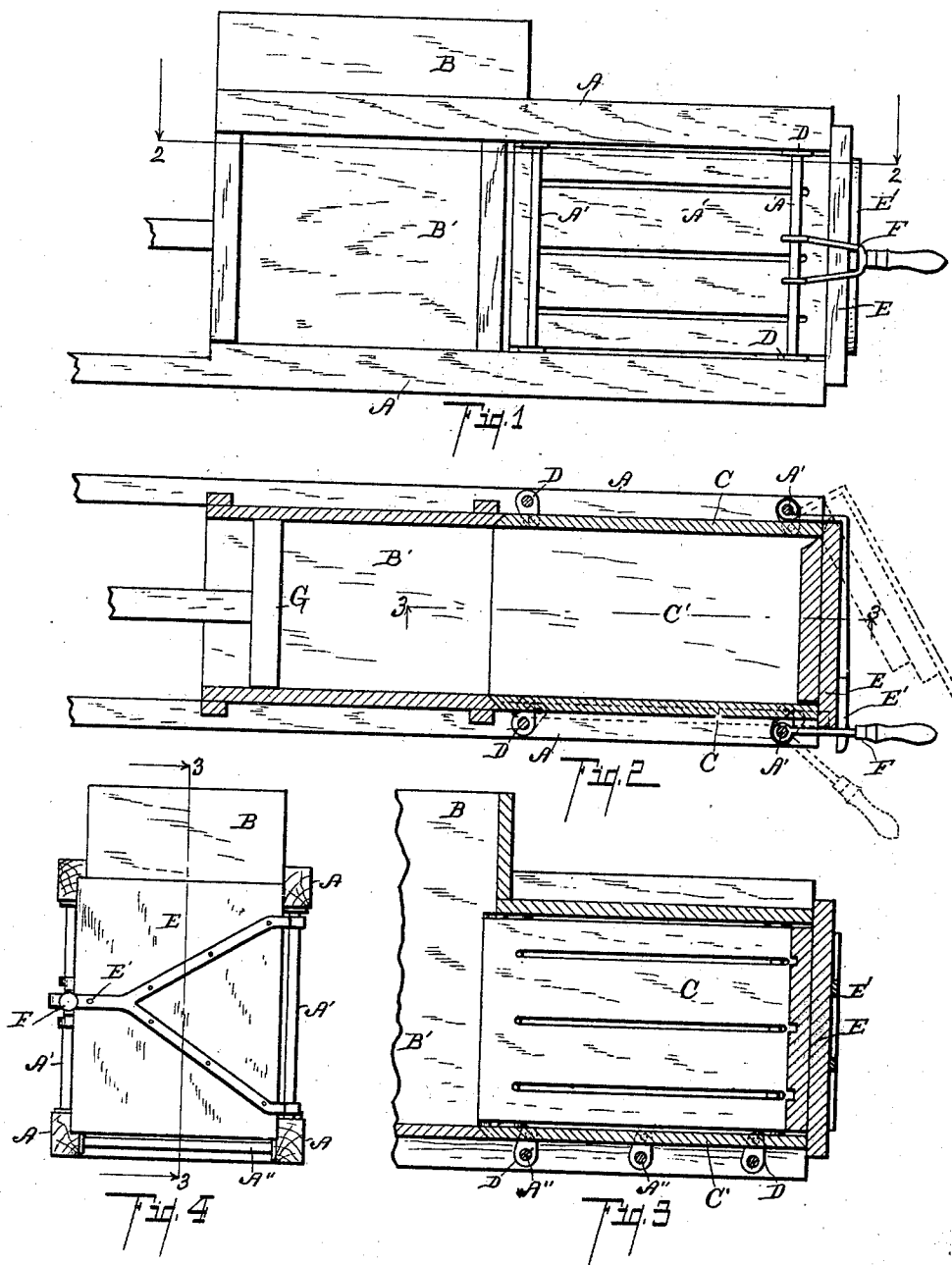
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Patented Dec. 23, 1902.

W. T. HULSCHER.
BALING CHAMBER FOR BALING PRESSES.

(Application filed May 24, 1902.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM T. HULSCHER, OF BATTLECREEK, MICHIGAN.

BALING-CHAMBER FOR BALING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 716,422, dated December 23, 1902.

Application filed May 24, 1902. Serial No. 108,796. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. HULSCHER, a citizen of the United States, residing at the city of Battlecreek, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Baling-Chambers for Baling-Presses, of which the following is a specification.

This invention relates to improvements in 10 baling-chambers for baling-presses.

The objects of this invention are to provide an improved baling-chamber for baling-presses from which the completed bale may be quickly and easily removed either by being ejected therefrom by the plunger or drawn 15 therefrom by the operator.

Another object is to simplify the construction of such a baling-chamber, so that the same shall be economical to construct, easy to operate, and durable in use. 20

Further objects will definitely appear in the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the 25 following specification.

The invention is clearly defined, and pointed out in the claims.

A structure embodying the features of my invention is fully illustrated in the accompanying drawings, forming a part of this specification, in which— 30

Figure 1 is a detail side elevation view of a structure embodying the features of my invention, showing the baling-chamber and feed-hopper of a baling-press. Fig. 2 is a detail horizontal sectional plan view taken on line 2 2 of Fig. 1, showing the baling-chamber, plunger, and details of my improved means of controlling the same. Fig. 3 is a detail longitudinal vertical sectional view taken on line 3 3 of Figs. 2 and 4, showing details of the end door construction. Fig. 4 is an end elevation view taken looking from the right of Figs. 1 and 2. 35

In the drawings all of the sectional views are taken looking in the direction of the little arrows at the ends of the section-lines, and similar letters of reference refer to similar parts throughout the several views. 40

Referring to the lettered parts of the drawings, A represents the frame, and B the hop-

per. The forward end B' or feed portion of the baling-chamber is provided with suitable walls. The portion of the chamber in which the bale is formed is provided with adjustable side and bottom walls C C C'. The side walls C are secured to the frame A by links D on the vertical rods A', two on each side being illustrated in the drawings. The bottom wall C' is secured to the frame in substantially the same manner by the links D on the transverse rods A'', so that when it is desired to remove the bale from the chamber the side walls will move rearwardly and outwardly, as indicated by the dotted lines in Fig. 2, and the bottom will move downwardly and rearwardly, which effectively releases the bale. The inner ends of the movable walls are preferably beveled to rest against corresponding bevels on the feed-chamber walls, which assists in retaining them in position. The end door E is hinged to the supporting-frame on one of the vertical rods A', and the hinges are extended across the door into a lever at E', and on the main frame is a catch F, provided to engage the same and retain the door in its closed position. The ends of the walls abut against the door and are retained in position thereby, so that when the door is opened they are free to move outwardly, as described, and when the door is closed they are returned to and retained in the operative position. 55 60 65 70 75 80

G represents a plunger-head of suitable form. 85

The operative power is not here illustrated, as it is no part of this invention, the same being adapted for use with any suitable power.

Having thus described my invention, I will now point out its operation. The door E is closed, which returns the walls to and retains the same in position for use. The bale is then formed in the usual manner. When completed, the door E is opened and the walls of the chamber are free to move outwardly, and the operation of the plunger will eject the bale, or it may be easily withdrawn from the chamber by the operator. When the door is again closed, the walls of the chamber are returned to their operative position and the operation may be repeated. 90 95 100

I have illustrated and described my im-

proved baling-chamber in the form approved by me. I desire to remark, however, that I am aware that it is capable of considerable variation without departing from my invention.

The structure would be very desirable if but two of the walls of the chamber were formed adjustable in this manner. However, the structure illustrated possesses many advantages not possessed by such a structure. The end door E might be hinged or secured in another manner or position. The form illustrated is preferred, however, on account of its convenience of construction and operation.

Other variations in structural detail will readily appear to those skilled in the art to which my invention relates.

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

1. In a baling-chamber, the combination of a suitable frame A; walls C, C, C'; rods A', A'' arranged in said frame; links D on said rods pivotally secured to said walls whereby said walls are adapted to move outward; an end door E hinged to the frame, adapted to be closed against the ends of said walls and return the same to and retain the same in their operative position; and means for securing said door, substantially as described.

2. In a baling-chamber, the combination of

a suitable frame; walls; links secured to said frame and to said walls whereby said walls are adapted to move outwardly; and an end door hinged to the frame, adapted to be closed against the ends of said walls to return the same to and retain the same in their operative position; and means for retaining said door, as specified.

3. In a baling-chamber, the combination of a suitable frame; walls; links secured to said frame and to said walls whereby said walls are adapted to move outwardly; and an end door hinged to the frame, adapted to be closed against the ends of said walls to return the same to their operative position, for the purpose specified.

4. In a baling-chamber, the combination of a suitable frame; a hopper portion having walls rigidly secured to said frame; a baling portion having walls movably supported on said frame, said walls being adapted to move outwardly; and an end door adapted to close against said movable walls to return them to their normal position, as specified.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

WILLIAM T. HULSCHER. [L. S.]

Witnesses:

IRENE ADAMS,
OTIS A. EARL.