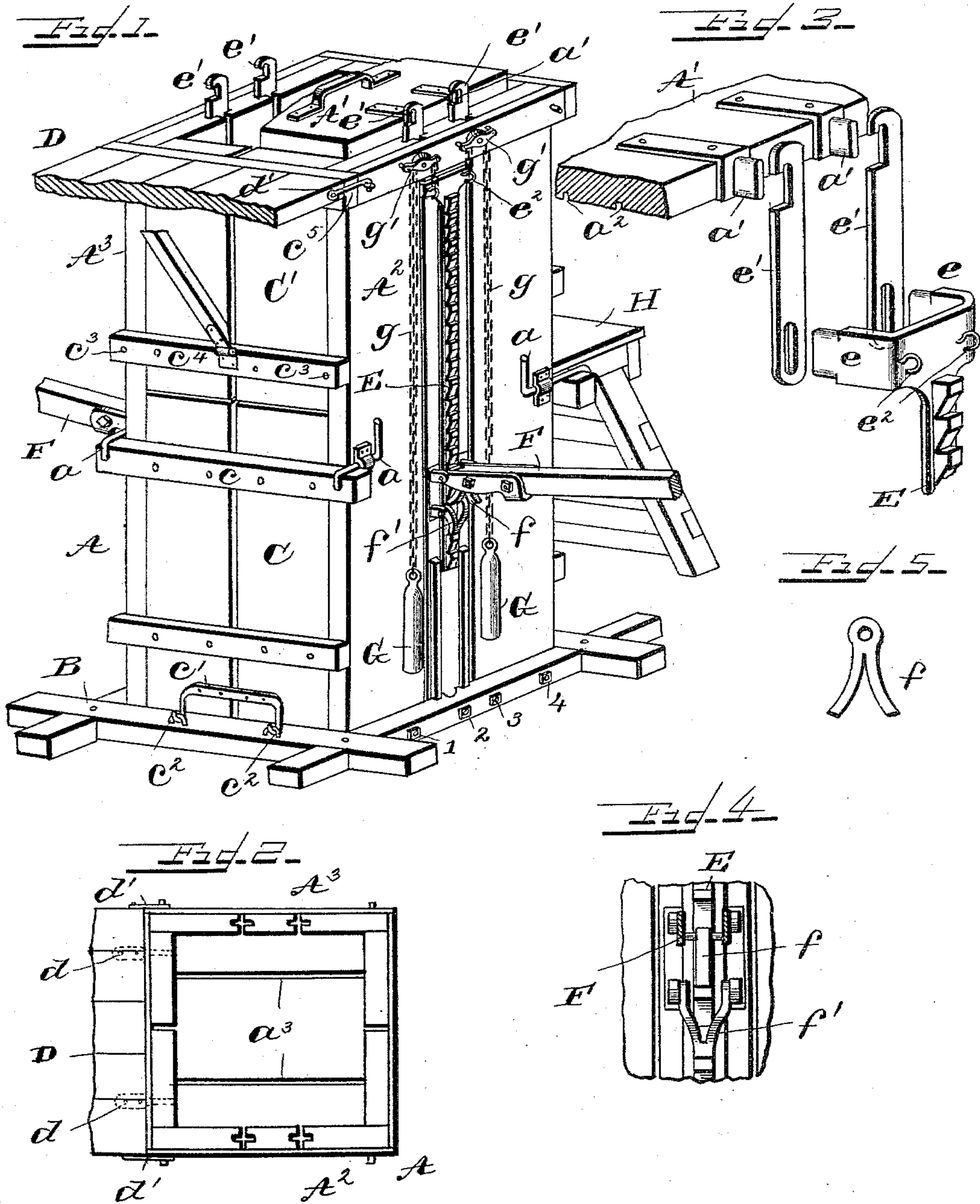


(No Model.)

W. T. YOUNGER.
BALING PRESS.

No. 597,478.

Patented Jan. 18, 1898.



WITNESSES.

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UNITED STATES PATENT OFFICE.

WILLIAM TURNER YOUNGER, OF AUSTIN, TEXAS.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 597,478, dated January 18, 1898.

Application filed March 3, 1897. Serial No. 625,834. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM TURNER YOUNGER, residing in the city of Austin, in the county of Travis and State of Texas, have
5 invented a new and Improved Hay Pressing or Baling Machine, to be used in baling, pressing, or compressing any substance balable, of which the following is a specification.

My invention relates to presses or baling-
10 machines, and more particularly to that class which are worked by hand-power; and it consists in certain new constructions and combinations of parts whereby a cheap, simple, and effective press is produced.

15 In the drawings I have shown the best form in which I have contemplated embodying my invention, and my said invention is disclosed in the following description and claims.

In the drawings, Figure 1 is a view of the
20 complete machine in isometric perspective. Fig. 2 is a plan or top view of the main body or casing. Fig. 3 is a similar view to Fig. 1, on an enlarged scale, showing the upper end of one of the movable ratchet-bars and its
25 connections with the follower. Fig. 4 is a detail view of a part of the side of the main body; and Fig. 5 is a view of the weighted pawl, enlarged.

In the figures, A is the main body or casing,
30 and A' is the follower. This main body I prefer to make in separable parts, or of the "knockdown" form, so that it can be taken apart and packed in a small space for storage or for shipment. The casing is supported in
35 an upright position when the machine is in operation by a base B. The sides A² and A³ are each secured to this base by four bolts 1 2 3 4, two being in the center piece of the side, as the greater strain comes upon that. Be-
40 tween the side pieces at the lower part of the casing are two doors, only one of which, C, is seen in the drawings. These doors are secured by having the cross-piece or cleat c engaged by the retaining-hooks a a and by the
45 bar c', having the hooks c², engaging staples in the base. This latter part of the construction serves as a hinge, while permitting the ready and easy detachment of the doors when desired. Above the door C is a panel C', which
50 is secured in position by screws c³, passing through the cleats or cross-pieces c⁴ c⁵. The

feeding-table D for the press is secured in this instance by dowels d and hasps or hooks d'.

The follower A' is forced downward to effect the compression of the material within the
55 casing by the following instrumentalities: Each side of the body or casing is composed of three parts and a narrow space or slot is left between them. Each wall of these slots is provided with a groove extending at right
60 angles to the slot. These slots or spaces admit and constitute guides for the inwardly-extending arms e e of the movable ratchet-racks E at each side of the machine. To these
65 arms e e are secured the flat follower-hooks e' e', which engage and are guided by the grooves in the walls of the slots. The follower A' is provided with two outwardly-extending
70 arms a' a', which are so placed that when they are engaged by the follower-hooks and the racks are depressed these arms will engage
75 the same slots as the arms e e of the racks, and the follower will thus be guided in its downward movement free from contact with the side walls of the casing.

At each side of the casing is a lever F, which
is provided with a weighted pawl f, which engages the rack E. Immediately below the
80 point of pivoting of the lever is placed a retaining-pawl f'. While but one side of the casing is shown, it will be understood that these devices are duplicated at the opposite
side of the casing.

The upper part or head of each rack is provided with two hooks e² e², to which are at-
85 tached cords or chains g g, which pass up over pulleys g' g' and support at their other ends weights G G. These weights are proportioned so as to raise the follower and
90 racks when the latter are freed from the retaining-pawls f' and the levers F.

H is a platform upon which the operator stands when charging the casing.

The follower is provided with two deep
95 grooves a² a², extending transversely of the same, while the bottom of the casing has two like grooves a³ a³. There may be a greater number of these if desired.

The operation of my press is as follows: The follower being at its highest position is
100 removed by the operator, who thereupon fills the casing with hay or the other material to

be compressed. He then replaces the follower and draws its arms $a' a'$ into the hooks $e' e'$. The levers F are now raised and lowered simultaneously, drawing the racks and the follower downward equally on both sides. When the follower has been depressed and the material compressed to the point desired, the doors C are opened outward and the binding passed around the bale through the grooves $a^2 a^3$ and properly secured. The follower and racks are then released by turning the retaining-pawls f upward until they engage and hold the weighted pawls f' out of contact with the racks. The follower and racks will then be drawn quickly upward by the weights G G. The doors C will then be replaced and the operation repeated.

The press can be readily taken down by removing the bolts 1 2 3 4 on each side, screws c^3 , the fastening devices for the table D, and the operating-levers F. The parts composing the structure can then be separated and compactly stowed.

What I claim, and desire to secure by Letters Patent, is—

1. In a press the combination with the main body provided with the guiding-slots,

of the movable racks outside of the main body and having parts engaging said slots, the follower having arms also engaging said slots, devices connecting the racks and the follower-arms, and the actuating-levers, substantially as described.

2. In a press, the combination with the main body or casing having the guiding-slots in its sides and the grooves extending at right angles to the said slots, of the movable racks having arms engaging said slots, the follower-hooks engaging the rack-arms and adapted to slide in the grooves in said slots, the follower having arms for engaging said hooks and slots, and the actuating-levers for said racks, substantially as described.

3. In a press the combination with the main body, of the ratchet-rack having the inwardly-extending arms, the follower-hooks detachably engaging the said arms, and the follower having the arms detachably engaging the said hooks, substantially as described.

WILLIAM TURNER YOUNGER.

Witnesses:

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