

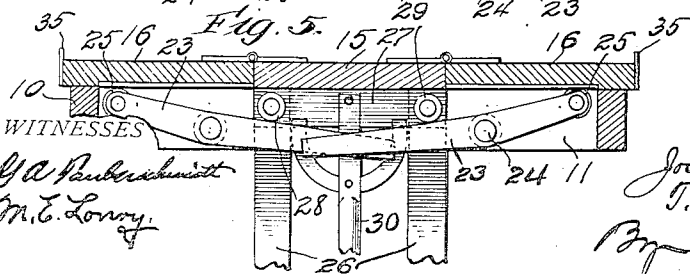
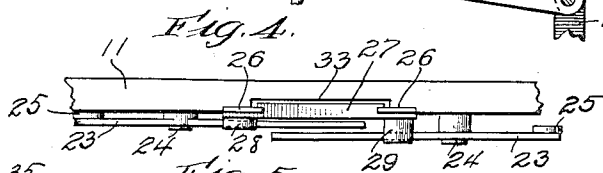
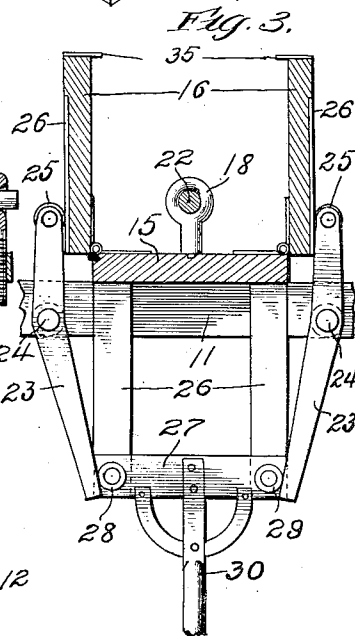
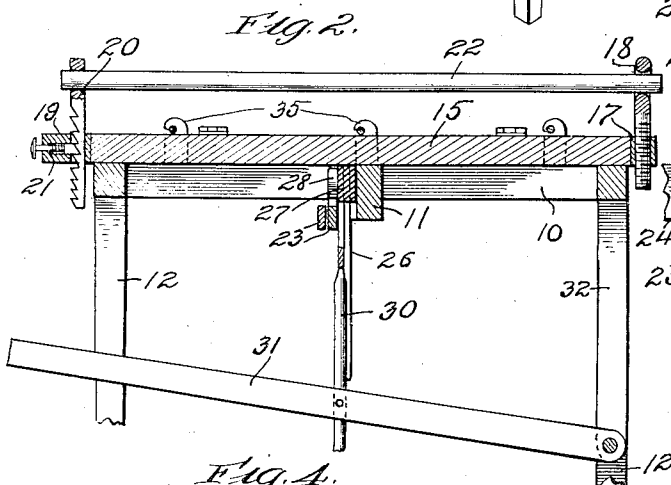
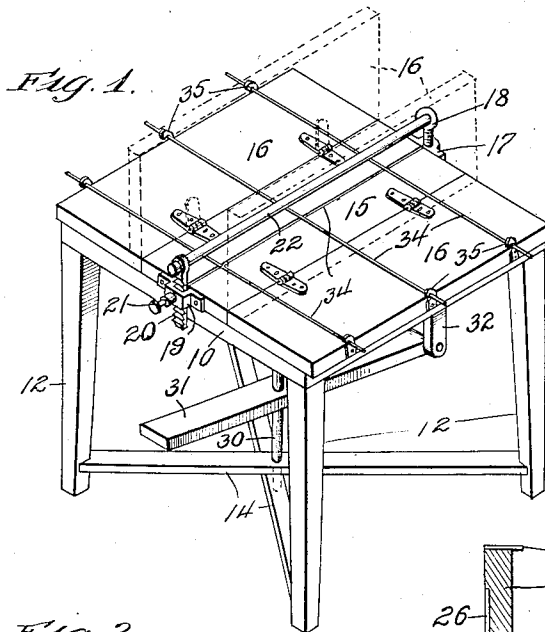
J. C. FULKERSON & T. G. WHITE.

BALING PRESS.

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1,042,544.

Patented Oct. 29, 1912.



WITNESSES

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JOSEPH C. FULKERSON AND THELO GLENN WHITE, OF MARION, IOWA.

BALING-PRESS.

1,042,544.

Specification of Letters Patent.

Patented Oct. 29, 1912.

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To all whom it may concern:

Be it known that we, JOSEPH C. FULKERSON and THELO GLENN WHITE, citizens of the United States, residing at Marion, in the county of Linn and State of Iowa, have invented certain new and useful Improvements in Baling-Presses, of which the following is a specification.

This invention relates to certain new and useful improvements in baling presses, and relates more particularly to a press adapted to the baling of empty bags, particularly such bags as those that are used in the shipping of cement and the like.

The primary object of our invention is to provide means for quickly bundling a number of bags and holding the same in bundled form until the same can be wrapped or tied.

Briefly described, the invention comprises a bench or table suitably supported and consisting of a stationary member and two hinged side members adapted to lie when in open position on the same plane as the stationary member, and when folded or operated adapted to lie in positions at right angles to the stationary member, and in their movement from open to folded position, adapted to double the bags placed on the stationary member, and to bring the ties into position for tying, together with means for operating the hinged or movable members, as will be hereinafter specifically described and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming a part of this application, and wherein like numerals of reference are employed for designating like parts throughout the different views, in which:

Figure 1 is a perspective view of a bag baling press in accordance with our invention, the movable leaf members being shown in full lines in open position and in dotted lines in their folded position. Fig. 2 is a longitudinal sectional view of the press with the foldable leaf members in open position. Fig. 3 is a cross-sectional view with the foldable leaf members in the closed position, parts of the supporting frame being broken away. Fig. 4 is a detail top plan view of the leaf folding arms and their support, and, Fig. 5 is a cross-sectional view of the table or bench showing the leaf folding arms in elevation in the position they

assume when the leaf members are in open position.

To put our invention into practice, we provide a frame as 10, in this instance shown as comprising a pair of side bars and a pair of end bars, and an intermediate cross-bar or brace 11, such frame being suitably supported as by legs 12 preferably braced by the diagonal braces 14, these braces being desirably placed as shown in order to provide a guide for an operating rod, as will hereinafter more fully appear. On this frame 10 is mounted the table or bench on which the bags are bundled or baled, such table or bench comprising a central fixed member or leaf 15 and two side leaves or members 16 which are hinged to the opposite side edges of the leaf or member 15 in such manner that in open position as shown in Figs. 1, 2, and 5, the leaf members constituting the table or bench all lie in the same plane. Attached to the rear end of the central leaf member 15 is a plate or lug 17 having a threaded eye in which is received the threaded shank of an eye bolt 18. The front end of the member 15 is provided with a keeper 19 which receives the shank 20 of an eye bolt similar to the eye bolt 18, but having its shank provided with ratchet teeth to be engaged by a suitable bolt as 21 carried by the keeper 19. The eye bolts 18, 20 receive a presser bar or rod 22, which lies centrally above the leaf member 15.

The leaf members 16, as heretofore stated, are adapted to be operated so as to be moved to a position at right angles to the leaf member 15, and to accomplish this, we provide a treadle operated mechanism including a pair of pivoted arms which are adapted to engage the under faces of the leaf members 16 and in their movement, swing the leaf members 16 on their hinges to a position at right angles to the member 15. This mechanism comprises a pair of arms 23 which are pivoted intermediate their ends as at 24 to the cross-bar 11, and on their outer ends are provided with rollers 25 which engage wearing plates as 26 on the outer or under faces of the leaf members 16. Attached to the cross-bar 11 is a pair of guides 26 on which reciprocates a cross-head 27, said cross-head carrying at or near the respective ends thereof, rollers as 28, 29, respectively which engage with the arms 23, and as the cross-head descends, serve to swing the arms 23

on their pivots so as to cause the upper ends thereof to assume a substantially vertical position, and in their movement swing the members 16 to the closed position as shown in Fig. 3. The cross-head is operated by means of a vertical operating rod 30, connected at its upper end to the cross-head and extending through and being connected with a treadle 31, which projects at the front end of the press, and at its rear end is pivoted in suitable brackets 32. The braces 14 serve to provide a guide for the lower end of the operating rod 30. In order to provide clearance for the movement of the cross-head 27, we may cut away the cross-bar 11 as shown at 33 in Fig. 4 of the drawings, and since the operating levers 23 must necessarily be of a length that their ends overlap when the leaf members 16 are in open position, one of the levers 23 is offset from the cross-bar 11 a greater distance therefrom than the other lever, and the roller 29 is made of a greater width than the roller 28, so that the lower free ends of the arms will not interfere when moving to the closed position as shown in Fig. 5 of the drawings.

Means is provided on the free edges of the members 16 for holding the twine or wires 34 employed for tying the bundles of bags, which means may be clamps 35 as shown, or merely kerfs cut into the edges of the leaf members. We may also provide means for holding tie wires longitudinally of the member 15, though generally the cross wires are all that are desired for tying the bundles.

With the press ready for operation as shown in full lines in Fig. 1 of the drawings, the levers 23 are in the position shown in Fig. 5 of the drawings, the bags are straightened out and laid in position lengthwise of the member 15, and bar 22 placed in position in the eye bolts 18, 20, it being understood of course that the tie wires 34 have been placed in position prior to placing the bags on the table or bench. The treadle 31 is then operated which causes the cross-head 27 to descend, and in its descent, rollers 28, 29 draw down on the levers 23, causing these levers to swing on their piv-

ots, and engaging the outer or under faces of the leaf members 16 swing the latter to the upright position as shown in dotted lines in Fig. 1 and in full lines in Fig. 3, bringing the ends of the tie wires to such position that they may be readily tied together. As soon as the tie wires have been secured around the bundle of bags, the foot lever is released, the bar 22 released and withdrawn, and the bundle of bags then removed from the table, the latter being again in position for bundling the next lot or number of bags placed thereon.

Having fully described our invention, what we claim as new and desire to secure by Letters Patent is:

1. In a baling press, a supporting frame, a table comprising a stationary leaf member and two hinged leaf members, a rod removably-mounted above the stationary member, and treadle-operated mechanism for moving the hinged members to a position at right angles to the stationary member.

2. In a baling press, the combination with a suitable supporting frame, and a bundling table carried thereby and comprising a stationary member and two hinged members, an operating treadle, a cross-head carried thereby, a pair of levers pivoted to the frame and having their outer ends engaging said hinged members, and means carried by the cross-head for operating said levers as the cross-head is moved by the treadle.

3. In a bag baling press, a table for receiving the bags to be bundled, and comprising a stationary member and two hinged members, treadle mechanism for operating the hinged members to move them at right angles to the stationary member, and a rod arranged above the stationary member and around which the bags are bundled as the hinged members are operated.

In testimony whereof we affix our signatures in presence of two witnesses.

JOSEPH C. FULKERSON.
THELO GLENN WHITE.

Witnesses:

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VIDA GARRETSON.