R. L. EDWARDS.

SACK BALER.

APPLICATION FILED NOV. 10, 1915.

1,208,524. Patented Dec. 12, 1916.

Fig. 1.

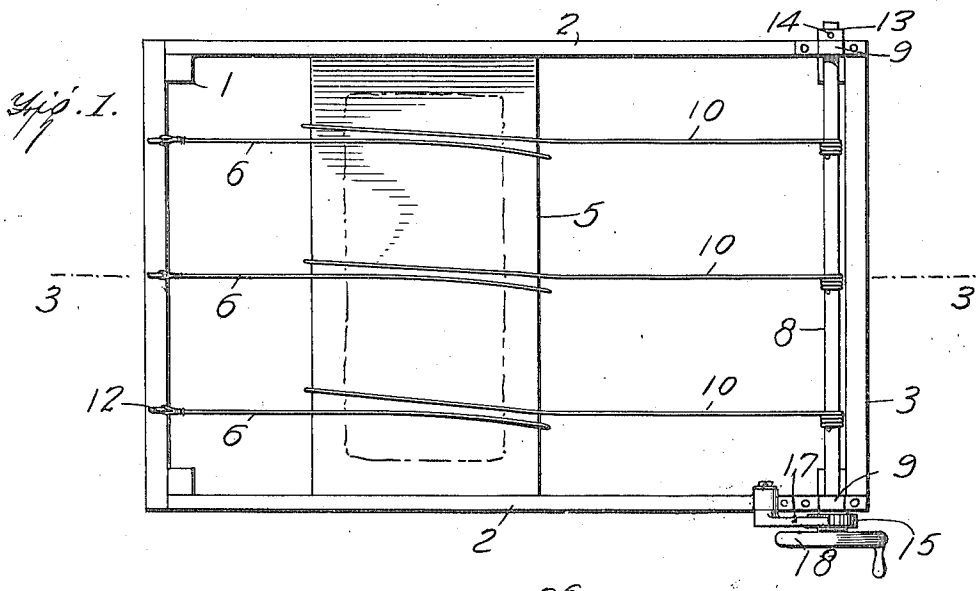


Fig. 2.

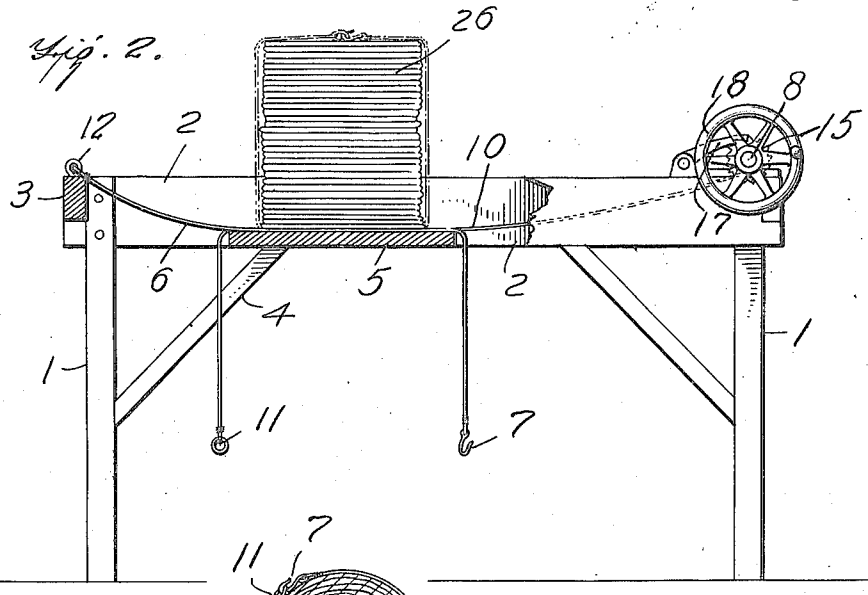
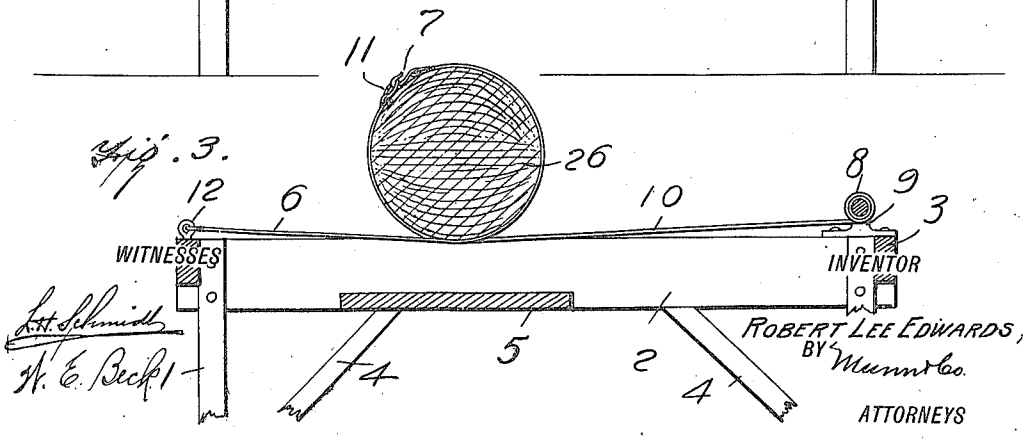


Fig. 3.



WITNESSES

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SACK-BALER.

1,208,524. Specification of Letters Patent. Patented Dec. 12, 1916.

Application filed November 10, 1915. Serial No. 60,681.

To all whom it may concern:

Be it known that I, ROBERT L. EDWARDS, a citizen of the United States, and a resident of Asher, in the county of Pottawatomie and State of Oklahoma, have invented a new and useful Improvement in Sack-Balers, of which the following is a specification.

My invention is an improvement in sack balers, and the invention has for its object to provide a device of the character specified, for compressing a bundle of sacks into a tight compact mass, and for holding the sacks in this tight compact mass until securing means has been connected with the bale.

In the drawings:—Figure 1 is a top plan view of the improved baler, Fig. 2 is a front view with parts broken away, and Fig. 3 is a section on the line 3—3 of Fig. 1.

The present embodiment of the invention comprises a framework composed of uprights 1, connecting longitudinal bars 2, and cross bars 3 at the tops of the uprights, the longitudinal bars 2 being extended beyond the uprights 1 at each end, and the extended ends of the bars 2 are rabbeted to receive the cross bars 3 as shown in Figs. 2 and 3. The uprights are braced against the bars 2 by inclined braces 4. The top of the frame is open except for a transverse plate or table 5, and the said plate is arranged nearer one end than the other and at the lower edges of the bars 2.

A series of flexible members 6 is connected with that end of the frame adjacent to the plate 5, and the free end of each of the said members is provided with a hook 7. A shaft or roller 8 is journaled transversely of the frame in bearings 9 on the longitudinal bars 2, at that end of the frame remote from the connection of the flexible members 6, and a series of flexible members 10 is connected with the shaft.

Each of the members of the series 10 is connected at one end to the shaft, and is arranged to wind thereon, and the outer end of each of the said members is provided with a ring 11. The members of the series 10 correspond in number and arrangement with the members of the series 6 and they are spaced apart from each other at the same distance as the members 6 are spaced apart, and the hook of each of the members 6 is adapted to engage the ring 11 of the adjacent member 10.

It will be noticed from an inspection of Figs. 2 and 3, that each member 6 is connected to an eye 12 on the adjacent cross bar 3, and means is provided for rotating the shaft 8 to wind up the members 10. The shaft or roller 8 has its ends extended beyond the longitudinal bars 2, and a collar 13 is adjustably connected with one end of the roller outside of the frame by means of a set screw 14. A gear wheel or ratchet wheel 15 is secured to the other end of the shaft in any suitable manner, and a pawl 17 coöperates with the gear or ratchet wheel to prevent reverse rotation of the shaft or roller. A hand wheel 18 is secured to the shaft outside of the gear or ratchet wheel, and by means of the hand wheel the shaft may be turned.

The bags or sacks 26 to be baled are arranged one upon the other on the plate 5, but before the bags are placed on the plate or table 5, the flexible members 6 and 10 are arranged as shown in Fig. 2. Each of the flexible members 6 is laid across the upper face of the plate 5 with the hook 7 depending on the opposite side of the plate from the eye 12 of the flexible member. The flexible members 10 are arranged transversely of the plate with the rings 11, depending on the opposite side of the plate from the shaft or roller 8. The bags are now laid on the flexible members as indicated in dotted lines in Fig. 1, and the depending ends of the flexible members are brought up over the pile of bags and the hook 7 of each flexible member 6 is engaged with the ring 11 of the adjacent flexible member 10. The wheel 18 is now turned in a direction to wind up the flexible members 10 on the roller 8, and as the tension on the flexible members increases the bundle of bags will take the cylindrical form shown in Fig. 3, and the bags will be tightly compressed into a bale. After the bags have been suitably compressed the pawl 19 prevents reverse rotation of the roller, holding the bundle of bags in compact form until the bale may be secured in the position shown by means of tie ropes, cords, wires, or the like. After the bundle or bale has been tied the pawl 17 is released, and the shaft 8 is rotated reversely sufficient to permit the disengagement of the hooks from the ring. The flexible members are now arranged as shown in Fig. 2, and the device is ready for another bale. Because of the fact that the plate 5 is arranged below

the connection of the ends of the flexible members 6 and 10, when the bale is compressed as shown in Fig. 3, it will be lifted off the plate 5, so that the placing of the binding cords is facilitated.

I claim:

A sack baler, comprising a frame, a series of flexible members secured at one end to one side of the frame, a roller journaled at the opposite side, a series of flexible members secured at one end to the roller and winding thereon, a supporting plate for the sacks to be baled arranged between the roller and the opposite side of the frame and spaced apart from the roller and from the said opposite side of the frame, the flexible members of each series being of a length to extend across the plate and to depend below the plate at the opposite side from their connection and the members of the series having interengaging means for connecting the corresponding members of the series above the sacks to be baled, said plate being spaced below the level of the connection of the flexible members to lift the bale of sacks when the flexible members are tightened.

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