(No Model.) 2 Sheets—Sheet 1.

C. B. SELOVER.

BALING PRESS.

No. 496,669. Patented May 2, 1893.

Fig. 1.

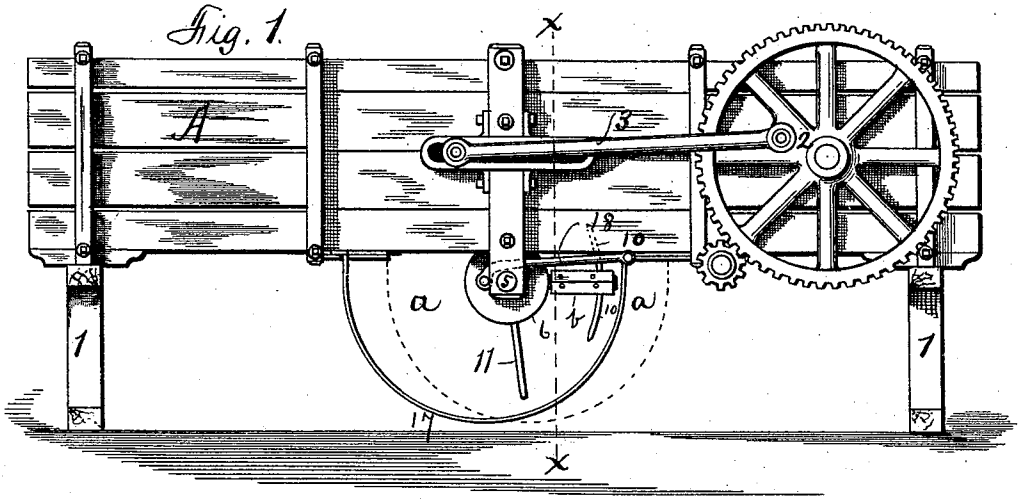


Fig. 2.

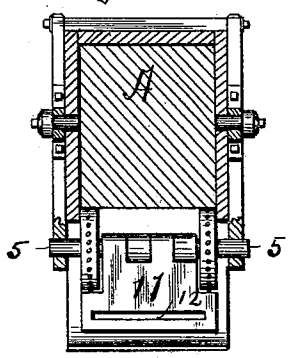


Fig 3

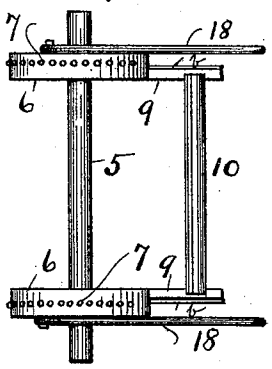


Fig. 4.

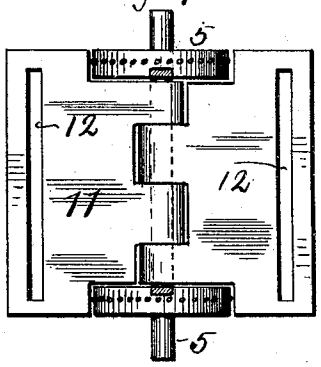


Fig. 5.

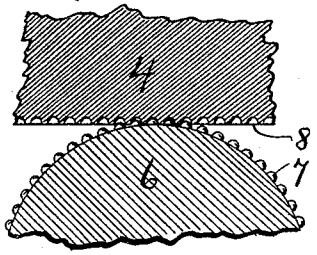
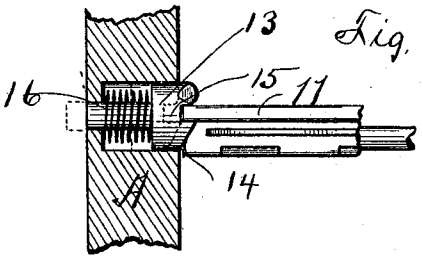


Fig. 6.



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(No Model.)

2 Sheets—Sheet 2.

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Fig. 8

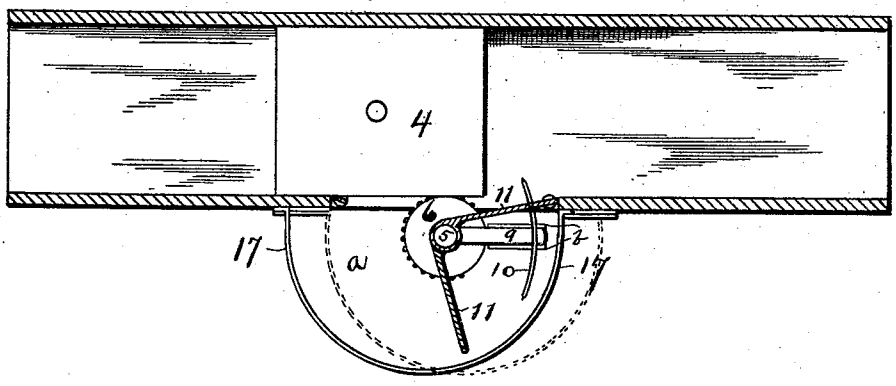


Fig. 7

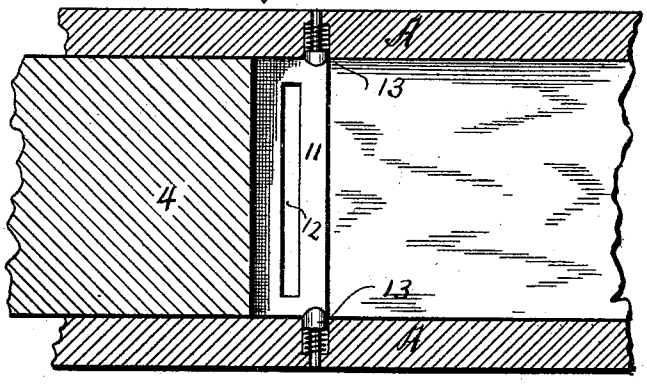
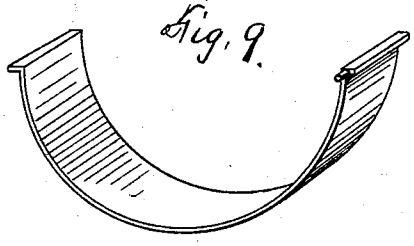


Fig. 9.



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UNITED STATES PATENT OFFICE.

CHARLES B. SELOVER, OF OWASCO, NEW YORK.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 496,669, dated May 2, 1893.

Application filed June 20, 1892. Serial No. 437,238. (No model.)

To all whom it may concern:

Be it known that I, CHARLES B. SELOVER, of Owasco, in the county of Cayuga, in the State of New York, have invented new and useful Improvements in Baling-Presses, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to the construction of baling presses for hay, straw and like material, and particularly to that class in which the baling chamber lies horizontally and the plunger operates horizontally therein.

My object is to produce a baling press to which and from which the material may be conveyed with the least amount of labor; cheap, durable in construction and of great utility.

My invention consists in the several novel features of construction and operation hereinafter described and which are specifically set forth in the claims hereunto annexed. It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1, is a side view of the baling press, complete. Fig. 2, is a cross section on line *x x*, in Fig. 1. Fig. 3, is a view of the feeding apparatus. Fig. 4, is a view of the wings which form a part of the feeding mechanism. Fig. 5 is a sectional view of a portion of the lower side of the plunger and the upper face of the wheel, mounted upon the shaft, to which the feeding apparatus is journaled. Fig. 6, is a sectional view through a portion of the side of the baling chamber, showing means for securing and releasing the wings, shown in Fig. 4. Fig. 7, is a top plan view of a portion of the baling chamber, showing the wings in engagement with the means for securing and releasing the same. Fig. 8, shows a side view of the baling chamber and means for sliding backward and forward the apron. Fig. 9, is a view of the apron, detached.

A—, is the baling chamber constructed substantially as shown, and mounted horizontally upon legs —1—1—.

2—, is the driving wheel, to which power is imparted in any manner desired, to which is journaled the pitman —3— adapted to move backward and forward and secured at its opposite end to the plunger —4—.

Upon the bottom of the baling chamber, and substantially centrally therein, I mount the shaft —5— having at or near each end of the wheels —6— rigidly secured to the shaft —5— and provided upon their peripheries with lugs, ratchets, or cogs —7—, adapted to engage with recesses or chambers —8— in the lower face of the plunger. Upon the shaft —5— are mounted the arms —9— having secured at or near one of their ends, the finger —10— which serves to thrust the hay up through the bottom into the baling chamber.

Upon the outer side of the arm —9— I secure knives —*b*— which are adapted to be removably secured thereto, and extending beyond the edges thereof, and serve to cut or chop the hay so that it will pass readily into the baling chamber. And —11— are wings secured to said shaft —5— having openings —12— therein through which the finger —10— passes in its operation.

13—, is a catch having its lower inner end inclined as at —14— and provided with a recess —15— into which the end of the wing —11— passes and is held, when it is forced upward by the arm —9—.

16— is a spring inserted behind it for the purpose of keeping the catch —13— in the pathway of the plunger. The upper inner end of this catch is constructed oval for the purposes hereinafter set forth.

17—, is an apron slidingly mounted upon the bottom of the baling chamber, open upon its sides or one of its sides, in which the material is placed.

My invention is operated as follows: The material is first placed within the apron at —*a*—. The plunger is then set in operation and while the plunger passes to the right, the arm —9— and the finger —10— upon it, passes down to the left and forces the material up into the baling chamber. Then when the plunger returns, the finger —10— drops down out of its way and the lower side of the plunger engages with the lugs upon the wheel —6— rotating it, and this in turn forces to and fro the shaft —18— to which it is connected at one end, and at its opposite end is secured to one end of the apron, so that the apron receives a vibratory movement and always leaves a large space in the side unoccupied, as at —*a*—, into which the material may

be placed. When the plunger is at the opposite end, as shown in Fig. 1, then the larger opening is at the right and the apron assumes the position shown in dotted lines. The wings —11— are held up by the catch —13— as shown, until the plunger passes over it, and as soon as it so passes over it, it then comes into engagement with the upper inner end of the catch and forces the same forward, releasing the catch, when it again drops down into position ready for use.

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

1. The combination with the baling chamber, a plunger adapted to travel therein, of the shaft —5—, arms mounted thereon, and fingers on said arms, and the apron, substantially as set forth.

2. The combination with the baling chamber, and the plunger adapted to travel therein, of the shaft —5—, wheels rigidly secured thereto, and provided with cogs or lugs adapted to engage with the lower face of the plunger, arms mounted on said shaft, fingers on said arms and the apron, substantially as described.

3. The combination with the baling chamber and the plunger adapted to travel therein, of the shaft —5—, wheels rigidly secured thereto, a pitman secured eccentric upon said wheel at one end, its opposite end secured to the apron, and the apron slidingly mounted, substantially as set forth.

4. The combination with the baling chamber and the plunger adapted to travel therein, of the shaft —5—, arms mounted thereon, fingers on said arms, wings mounted upon said shaft, having an opening adapted to receive the aforesaid fingers, and the apron, substantially as described.

5. The herein described catch adapted to be yieldingly mounted in the inner face of the baling chamber, having a recess adapted to receive the edge of the wing and means for releasing the same, by the operation of the plunger and wings mounted upon said shaft, as set forth.

6. The combination with the baling chamber, and the plunger adapted to travel therein, of the shaft —5—, wheels rigidly secured thereto and provided with cogs or lugs adapted to engage with the lower face of the plunger, arms mounted in said shaft, knives upon the outer lateral faces extending beyond their edges, fingers on said arms, and the apron, as set forth.

In witness whereof I have hereunto set my hand this 25th day of April, 1892.

CHAS. B. SELOVER.

In presence of—

HOWARD B. DENISON,

C. B. KINNE.