(No Model.)

J. H. BADGLEY.

BALING PRESS.

No. 286,168. Patented Oct. 9, 1883.

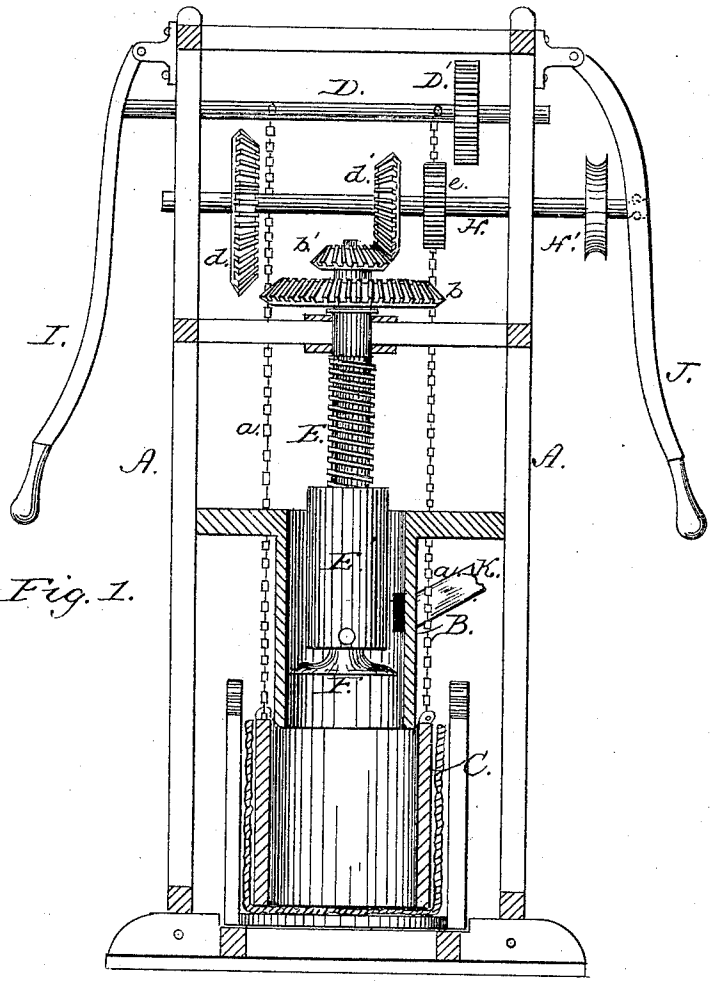


Fig. 1.

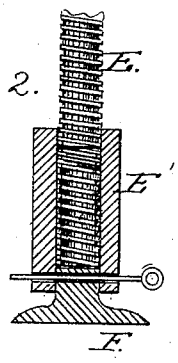


Fig. 2.

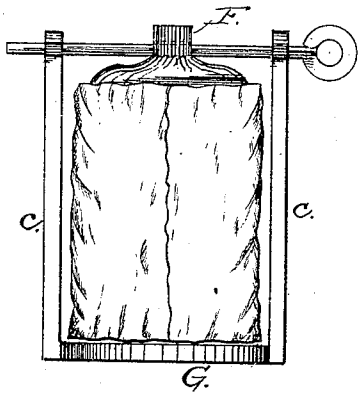


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOSEPHUS H. BADGLEY, OF CLAYTON, MICHIGAN.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 286,162, dated October 9, 1883.

Application filed June 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPHUS H. BADGLEY, a citizen of the United States, residing at Clayton, in the county of Lenawee and State of Michigan, have invented certain new and useful Improvements in Baling-Presses; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has for its object to provide a baling-press of a novel, simplified, and efficient construction, whereby bran, feathers, wool, or other similar light and elastic substances may be readily compressed into a small space and securely baled for shipping or transportation to any desired point; and my improvements consist, essentially, of the details of construction and general arrangement of parts, all as will be hereinafter fully described, and specifically designated in the claims.

In the accompanying drawings, Figure 1 represents a front elevation of my improvements with parts broken away to more fully show the construction, and Figs. 2 and 3 are detail sectional views thereof.

Similar letters of reference occurring on the several figures indicate like parts.

In carrying out my invention, A represents the frame-work of the press, within the central portion of which is located a hollow vertical cylinder, B, formed preferably of sheet-iron and secured rigidly in place to the cross-beams of said frame A, as shown. At the lower portion of the frame-work A is provided a movable sheet-iron cylinder, C, which is adapted to fit around the stationary cylinder B and move up and down upon the same. To the top of the movable cylinder C is fastened the lower ends of the chains *a*, the upper ends of which are secured to the roller or windlass D, journaled in the upper part of the frame A, and provided with a cog-wheel, D′, as shown. Journaled in the central portion of the frame A, and projecting down into the stationary cylinder B, is provided a screw, E, to the upper part of which is rigidly attached two bevel-gears, *b b′*, of unequal diameters, and located one above the other, while the lower end of the screw E engages with a vertical sleeve, E′, carrying upon its lower end a removable disk, F, as shown. At the bottom of the frame-work A is provided a removable platform, G, having a circular base of a diameter slightly larger than the diameter of the lower cylinder, C, and provided with uprights *c c* on two sides thereof, as fully shown in the drawings. Directly above the screw E, and journaled in the sides of the frame A, is provided the driving-shaft H, having the band or belt pulley H′ rigidly attached to one end thereof upon the outside of the frame-work A, while upon the central portion of the same is provided two bevel-gears, *d d′*, of unequal size, which are adapted to engage alternately with the bevel-gears *b b′* to raise and lower the sleeve E′ and disk F through the medium of the screw E. Near the inner end of the said driving-shaft H is provided a small pinion, *e*, which is adapted to engage with the cog-wheel D′ upon the windlass D at the proper time to raise or lower the cylinder C. On one side of the frame A is pivoted a suitable lever, I, connecting with the end of the roller or windlass D in such a manner that the cog-wheel D′ may be readily thrown in or out of gear with the pinion *e* upon the driving-shaft H, said shaft being also provided with a similar lever, J, to cause the bevel-gears to revolve the screw E in either direction at pleasure. A suitable spout or conductor, K, opens into the upper part of the upper stationary cylinder, B, for the purpose of feeding the material to be compressed down into the lower or packing cylinder, C.

The construction of my invention being as described, it will be observed that in the operation of the same the sack in which the bran, feathers, or other material is to be packed is first drawn up over and around the lower cylinder, C, which is then lowered until the bottom of the sack and the lower edges of the cylinder rests upon the circular base of the platform G. The material is then fed through the spout or conductor K down into and filling the said cylinder C and a portion of the cylinder B, and a round piece of cloth or canvas, constituting the cover of the sack, being adjusted upon the lower face of the disk F, the

driving-shaft H is put in motion and causes the bevel-wheel *d'* upon the same to revolve the bevel-wheel *b'* upon the top of the screw E, to revolve said screw and force the sleeve E', carrying the disk F, down upon the material, which is compressed until the lower cylinder, C, is tightly filled to the top. Now, by throwing the bevel cog-wheels *d'* and *b'* out of gear with each other and engaging the cog-wheel D' with the pinion *e* through the medium of the levers I and J the windlass D revolves and winds up the chains *a*, thereby drawing the cylinder C upward out of the sack and over upon the stationary cylinder B, leaving the compressed material in the sack, with the disk F fitting in the mouth of the same. The edges of the cloth cover is now drawn down and sewed around the edges of the sack's mouth to complete the package. By engaging the bevel-gears *b d* through the medium of the lever J the screw E is revolved to draw up the sleeve E' and disk F for filling other sacks in a like manner.

Having thus described my invention, what I claim as new and useful is—

1. The herein-described baling-press, consisting of the frame A, provided with the stationary cylinder B, movable cylinder C, platform G, screw E, provided with bevel-gears *b b'*, sleeve E', and disk F, spout K, shaft H, provided with bevel-gears *d d'*, pinion *e*, pulley H', and lever J, and the windlass D, provided with cog-wheel D', chains *a*, and lever I, all substantially as and for the purpose specified.

2. In a baling-press, the frame A, provided with the stationary cylinder B and movable cylinder C, in combination with the screw E, sleeve E', and disk F, all constructed and arranged to operate substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPHUS H. BADGLEY.

Witnesses:
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