

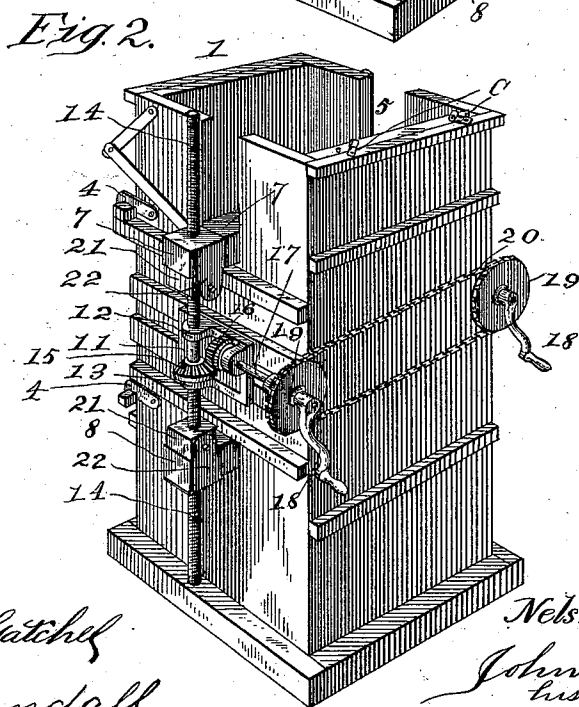
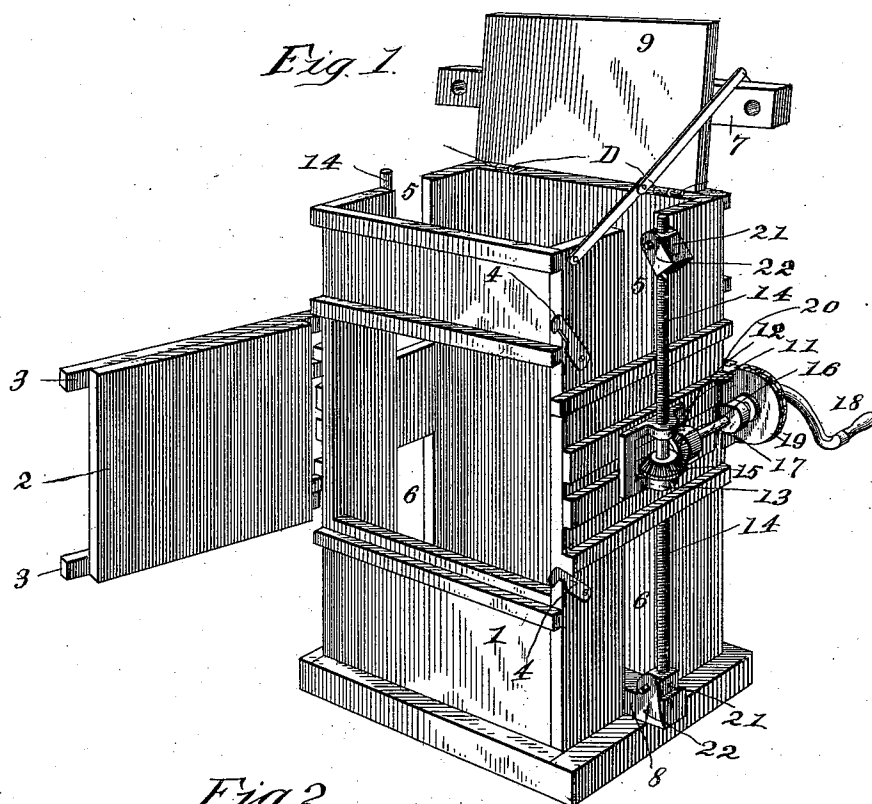
(No Model.)

2 Sheets—Sheet 1.

N. E. SWANSON.
BALING PRESS.

No. 556,482.

Patented Mar. 17, 1896.



Witnesses
Thos F. Gatchel
S. G. Randall.

Inventor
Nels E. Swanson.
John Wedderburn
his Attorney

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Fig. 3.

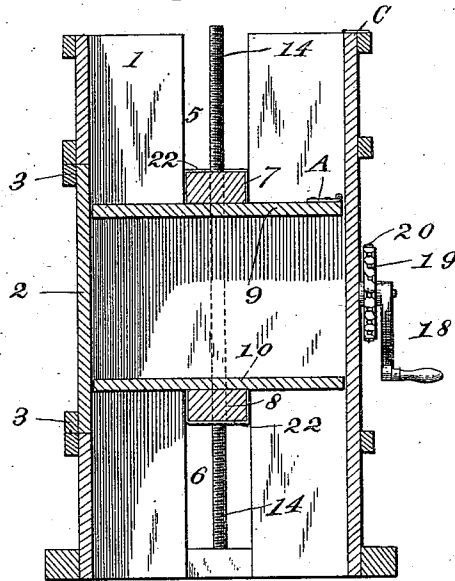
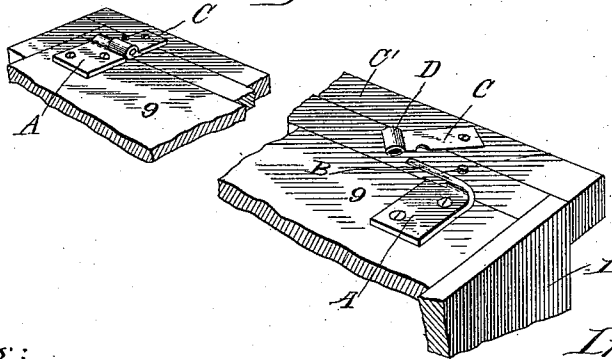


Fig. 4.



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UNITED STATES PATENT OFFICE.

NELS E. SWANSON, OF OSCEOLA, NEBRASKA.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 556,482, dated March 17, 1896.

Application filed November 5, 1894. Serial No. 527,887. (No model.)

To all whom it may concern:

Be it known that I, NELS E. SWANSON, a citizen of the United States, residing at Osceola, in the county of Polk and State of Nebraska, have invented certain new and useful Improvements in Broom-Corn-Baling Presses; and I do hereby 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.

This invention relates to improvements in broom-corn-baling presses, and the novelty resides in the features of construction which will be particularly pointed out in the appended claim.

In the drawings forming a part of this specification, Figure 1 represents a perspective view of the device looking at the front and one of the sides of the apparatus, and showing the lid or cover in its outward positions. Fig. 2 is a similar view of the same, looking at the rear portion and one of the sides. Fig. 3 is a vertical longitudinal section through the casing. Fig. 4 is a detail view of the adjustable hinge for the lid.

Like letters and numerals represent like parts in the different views.

1 represents the casing, made of wood or other suitable material, rectangular in cross-section, and having a door 2 in its front side, out of which the bale of hay may be withdrawn from the apparatus. This door is provided with projections 3 3, which are engaged by the hooks or catches 4 4 on the side of the casing for holding said door in its closed position. The sides of the casing are longitudinally slotted, as shown at 5 and 6, the slot 5 extending from the top down to a point near the center, and the slot 6 extending from the bottom up to a point near the center of the side. These slots are in alignment with each other and in them move the cross-bars 7 and 8 of the lid and bottom, respectively. The lid 9 and the bottom 10 are made of a size and shape to fit the interior of the casing and move loosely in the same. An adjustable hinge is provided at the edge of the lid or cover 9, by means of which the said lid may be swung open for the purpose of filling the press, the said hinge being capable of detachment from

the said lid, by means of which the said lid is capable of being moved down in the casing. This hinge is made in two parts, one part, A, being secured to the upper side of the lid 9 and having a pin B projecting at right angles thereto. The female part of the hinge C is pivotally secured to the upper face of a projecting ledge C' of the casing 1 and has a looped extension D which fits around the pin B. By this construction it will be seen that the parts of the hinge are readily connected and detached.

At the center of each side of the casing is secured a bracket 11 having two projecting lugs 12 and 13 thereon which are suitably slotted to receive the vertically-disposed rods 14, provided with left-hand threads above said lugs and with right-hand threads below said lugs. Secured to these rods between said lugs are bevel gear-wheels 15 meshing with similar gear-wheels 16 on the end of the horizontal shafts 17, mounted in bearings on said casing. The said shafts 17 have cranks 18 and sprocket-wheels 19 on their outer ends, which are connected by a sprocket-chain 20. The movement of these cranks transmits power to the threaded rods 14, thereby rotating the same, and the said rods 14 on each side of the casing are moved in unison by means of the sprocket-chain connection between the two shafts 17. The rods 14 carry upon their outer ends nuts 21, to which are secured the slotted loops 22, which pass around the ends of the cross-bars 7 and 8, the said cross-bars being slotted at their ends for the passage of the rods 14 therethrough.

From the foregoing description, taken in connection with the accompanying drawings, the operation of my device will be readily understood. Starting then with the device in the position shown in Fig. 1, with the exception that the door 2 is closed, the operation is as follows: Hay or straw is fed into the casing through the top and packed as well as can be done by hand. The lid or cover 9 is then closed, the parts A and C of the hinge disconnected, and the loops 22 in the rods 14 turned up around the end of the cross-bar 7. The cranks 18 are then turned, which causes a rotation of the rods 14, and by reason of the right and left hand threads thereon moving

in the nuts 21 the said nuts are caused to approach each other, drawing with them the lid 9 and the bottom 10 to which they are connected, thereby compressing the hay in the casing. When the nuts 21 have reached the limit of their movement, the bundle of hay is tied up and withdrawn through the door 2, ready for shipment.

It will be seen that I have devised an apparatus which is simple, complete, and effective for the purpose for which it is designed and one which is an improvement in the art. The same has been described in its preferred form, but it is obvious that many minor changes may be made in the details of construction thereof without departing from the nature or spirit of the invention or sacrificing any of its advantages.

Having now described my invention, what

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

In a device of the character set forth, the combination of a casing, a lid movable in said casing, and a hinge made in two parts, the male portion thereof rigidly secured to the top of the said lid, and the female portion pivotally secured to the top of said casing, whereby the same may be readily connected and detached, substantially as and for the purpose described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

NELS E. SWANSON.

Witnesses:

N. P. MONSON,
JOHN SWANSON.