

*G. Utley,
Cotton Press.*

No. 112025.

Patented Feb. 21. 1877.

Fig. 1.

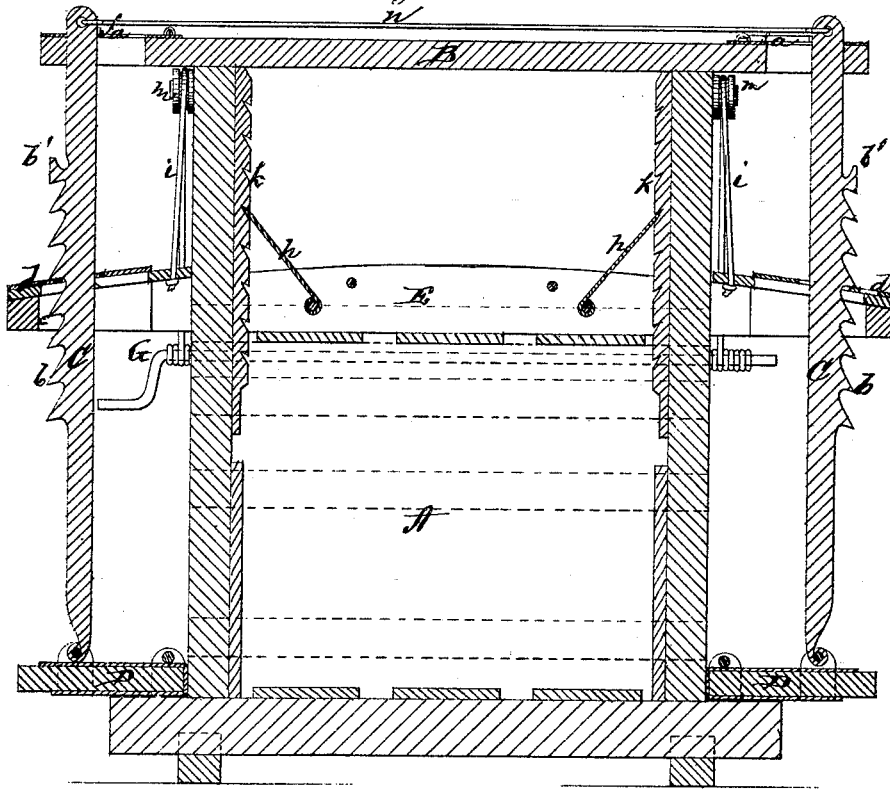
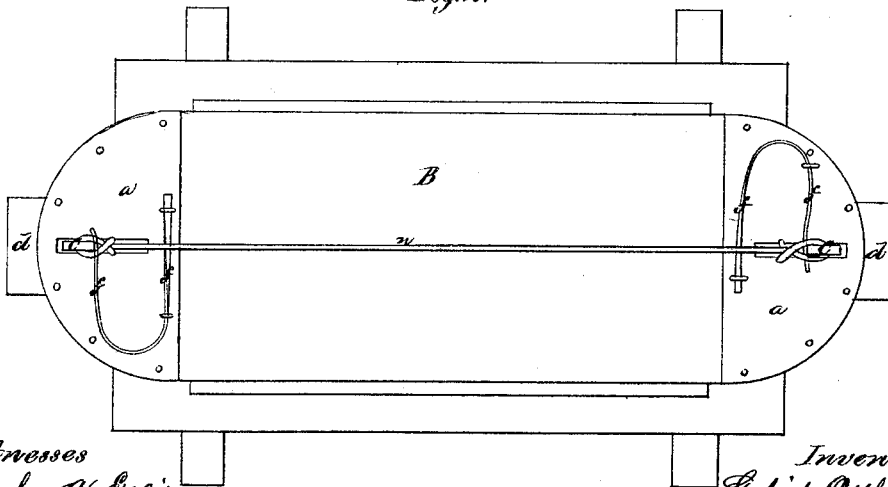


Fig. 2.



Witnesses

John W. Ellis.
J. V. White.

Inventor

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United States Patent Office.

GABRIEL UTLEY, OF CHAPEL HILL, NORTH CAROLINA.

Letters Patent No. 112,095, dated February 21, 1871.

IMPROVEMENT IN COTTON-PRESSES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GABRIEL UTLEY, of Chapel Hill, in the county of Orange and State of North Carolina, have invented certain new and useful Improvements in Cotton-Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a "hay and cotton-press," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and

Figure 2, a plan view of my press.

A represents an upright bale-box, the end pieces of which extend a suitable distance above the sides of the box, and are connected at their upper ends by the bar B.

The ends of this bar B extend beyond the end pieces of the bale-box, and are strengthened by means of metal plates *a* on the upper sides, as shown.

Through each end of the bar B is a slot or mortise, in which the upper end of a sword, C, is inserted, the lower end of the same being pivoted to a lever, D, which is pivoted itself to or between ears on the bottom platform of the press.

On the outer edges of the swords C C are formed teeth *b b*, which are hooked downward, as shown in fig. 1.

These teeth catch upon pins *e e* in the ends of the follower-block E, the side beams of which pass through vertical slots in the end pieces of the bale-box A.

The ends of the follower E are strengthened by

metal plates *d* on the upper side, which plates are slotted or mortised for the passage of the swords C C.

At each end, on the upper side of the top bar B, is a spring, *f*, which bears against the sword C and causes the teeth of the same to catch on the pin *e* in the end of the follower-block.

By the working of the levers D D the follower is brought down to press the bale, the said follower being held at each successive stroke of said levers by means of pawls *h h* working in ratchets *k k* on the inner sides of the end pieces of the bale-box.

The follower is raised by means of a windlass, G, attached to the side of the bale-box, and from which two ropes or chains, *i i*, pass over pulleys *m m* to the follower.

The upper ends of the swords C C are connected by a cord, *n*, so that by pulling on said cord the swords may be thrown inward when desired to raise the follower.

The uppermost tooth *b'* on the swords is bent upward to support the follower when raised up.

Having thus fully described my invention,

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

1. The swords C C, provided with teeth *b b*, bent downward, and each with one tooth, *b'*, above the other teeth bent upward, substantially as shown and described, and for the purposes set forth.

2. The construction and arrangement of the box A, bar B, swords C C, levers D D, springs *f f*, cord *n*, follower E, pawls *h h*, ratchets *k k*, windlass G, and cords *i i*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

Witnesses:

GABRIEL UTLEY.

ELMORE W. WOODS,

JAMES Y. WATSON.