S. Cooley,

Wool Press,

No. 58,779, Patented Oct. 16, 1866.

Fig. 4.

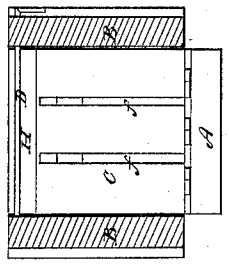


Fig. 6



Fig. 1.

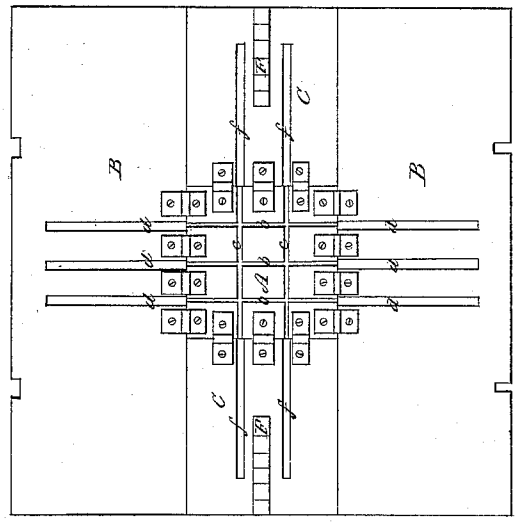


Fig. 2.

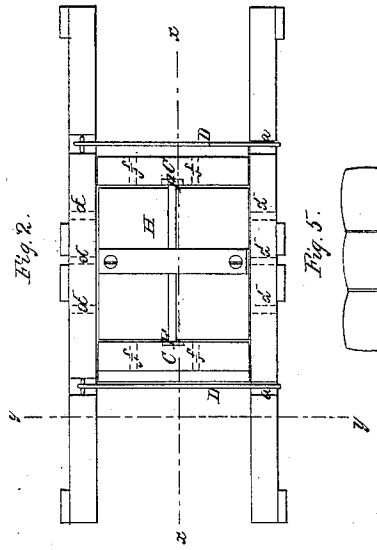


Fig. 5.

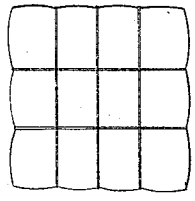
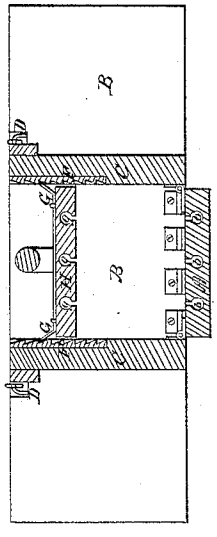


Fig. 3.



Witnesses

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AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

SOLON COOLEY, OF OAKWOOD, MICHIGAN.

IMPROVEMENT IN WOOL-PRESSES.

Specification forming part of Letters Patent No. **58,779**, dated October 16, 1866.

To all whom it may concern:

Be it known that I, SOLON COOLEY, of Oakwood, in the county of Oakland and State of Michigan, have invented new and useful Improvements in Wool-Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention consists, principally, in a novel construction and arrangement of the press whereby, after the fleece has been pressed therein, it can be securely bound or tied before removing it from the press, and without relieving the pressure upon it; also in the use, in combination with the sides of the press-box, of a follower of such a construction and arrangement that it will hold itself at any degree of depression to which, by means of weight, it may have been brought to bear against the wool.

In accompanying plate of drawings my improvements in wool-presses are illustrated, Figure 1 being a plan or top view of the press with the sides swung down; Fig. 2, a plan or top view of the press with its sides swung up; Fig. 3, a central longitudinal vertical section, taken in the plane of the line *x x*, Fig. 2; Fig. 4, a transverse vertical section, taken in the plane of the line *y y*, Fig. 2; Fig. 5, an end view of a bale of wool pressed in my improved press; Fig. 6, a detail view.

Similar letters of reference indicate like parts.

A in the drawings represents the bottom boards of the press, to the sides of which are hinged the side and end pieces or boards, B B, and C C, of the press-box, so that they can be swung up or down, the sides and ends, when in a vertical position, forming a perfect square-shaped box, in which position they are secured by means of hooks D D, hung upon one side piece and interlocking with the notch *a* in the other, extending across the width of the box outside of the upper ends of the end boards, C C.

The bottom board, A, of the press-box has a series of grooves, *b b* and *c c*, extending entirely across its width in both directions and at right angles to each other, continuations of which grooves are made in the form of slots *d* and *f* in both the side and end boards, B B and C C, of the box, which slots, when the side and end boards are swung up into a vertical position, extend in directions at right angles to the grooves in the bottom board, A.

Upon the inside face, at the center of each end piece C of the box, and in a vertical direction, are secured toothed or ratchet rack-bars F F, one to each end board, with the teeth of which engage the spring-arms G upon the upper side of the follower H, made of suitable size to fit within the press-box, as such follower is depressed or pressed down by weighting it in any suitable manner, thereby preventing the follower from rising or being lifted until said arms are disengaged by the swinging down of the end pieces, or in any other proper manner.

The use of my improved press, constructed and arranged as above described, is as follows: First, place the fleece upon the bottom board of the press, when roll it up upon each side, and then raise the side boards, B B, securing them in position by properly fastening either one of the two hooks D over and across from one to the other; then roll up either one of the two ends of the fleece, and, swinging up the end board at such end, the proper hook D is fastened across from one side of the press to the other, to hold the end board in such position, when the other end of the fleece is rolled up and its end board swung up and secured as explained for the opposite end. The follower is then placed in the top of the box, and weighted in any suitable manner, so as to press down the fleece with any desired degree of pressure, its spring-arms, by interlocking with the rack-bars of the end boards, preventing the follower from moving upward, and thus holding it in its depressed position, when the cords which are to be used to bind the compressed fleece being drawn through the grooves in the bottom board of the press, are then passed up and around one side and end of the bale through the grooves *g g* in the under side of the follower, and down the opposite side and end, where, meeting the other

ends of the cords, they are tied together and about the bale, firmly and tightly binding the same together; after which the sides and ends are swung down, relieving the follower and leaving the bale free to be removed at pleasure.

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

The arrangement of the bottom board, A, the sides B B, and ends C C, as constructed with the follower H, spring-arms G G, rack-bars F, and hooks D D, substantially as and for the purpose herein specified.

SOLON COOLEY.

Witnesses:
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E. BARLING.