

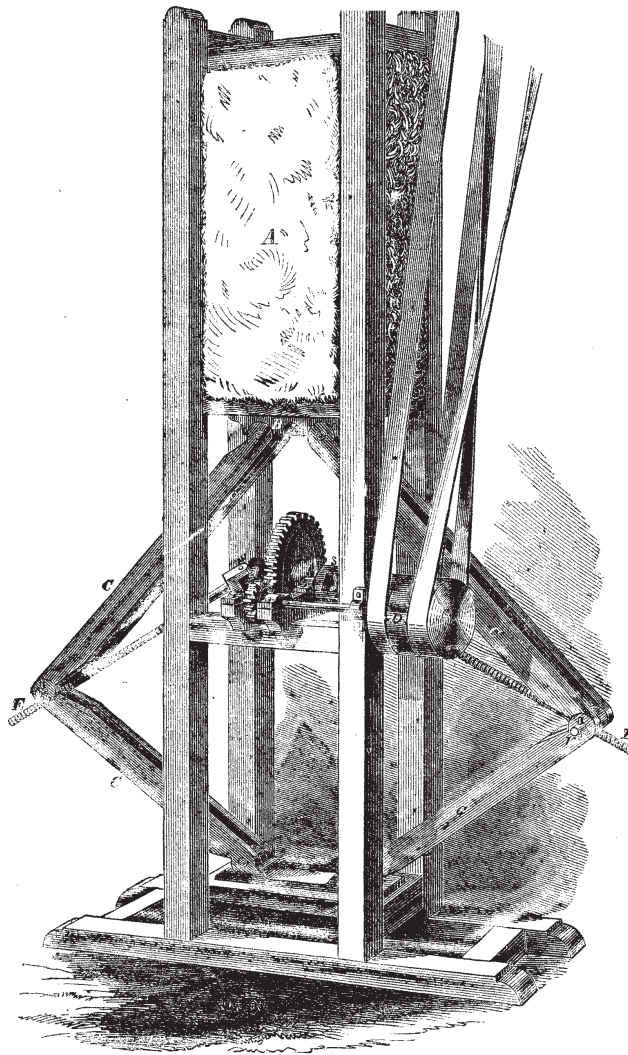
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IMPROVED COTTON PRESS.

For pressing hay, cotton, &c., the most perfect of all plans is the toggle joint, for the power increases with the increase of the resistance; but the difficulty of applying machinery to the continually-moving joint has caused presses of other varieties to be extensively used for these purposes. We here illustrate a device which seems to obviate the difficulty very perfectly.

A is the cotton in the bale box (the box, for clearness, not being represented), B, the follower, and C C C, the four arms of the toggle, which are made double or in pairs, as shown. The two rods, E E, which draw the joints, r r, together, and thus force up the follower, B, pass through nuts at the joints, r r, which nuts are fitted to turn in the joints as the inclination of the rods varies with the upward and downward motion of the joints. These rods have one a right hand and the other a left hand screw, and are each made in two parts, which are connected at s s by a universal joint. The short arm of each rod is secured in bearings, and carries on its end a pinion, which is connected by gearing to the pulley, D. Two belts run in opposite directions on loose pulleys on the same shaft with, and may be brought upon the pulley, D, alternately to carry the follower up and down, as may be desired. It will be perceived that this is a suitable press for pressing cloth and other substances, as well as cotton.

A patent for this invention was obtained (through the agency of Munn & Co.), on August 16, 1859, for the inventor, M. B. Hand, of Handsboro', Miss.; and persons desiring further information in relation to it will please address Hand & Co., at the above place, or S. C. Hills, No. 12 Platt-street, this city.



HAND'S IMPROVED COTTON PRESS.