

Cotton-press. One in which cotton is baled for transportation and storage.

There are various forms of cotton-presses, known as the screw, toggle, beater, revolving, hydraulic, portable, double-acting, windlass, rack-and-pinion, re-pressing, and rolling-pressure presses. See under those heads respectively.

The old form of press was the screw, which ascended vertically from the follower and worked in a nut in the upper cross-beam. It was rotated by a sweep.

In the illustration is a modern form of the screw-press, which leaves the upper end of the box open for filling, the screw working from beneath.

The cotton is confined in a long rectangular chest that revolves on a vertical axis, engaging a screw that drives the follower.

The bevel-wheel *k* is driven by the shaft and band wheels, and engages another bevel-wheel, which is secured, teeth down, beneath the sill-framing of the box, which runs on rollers on the rim of the curb *G*. As the box rotates, the screw rotates in its nut, and elevates the follower *F*.

Fig. 1489.

