

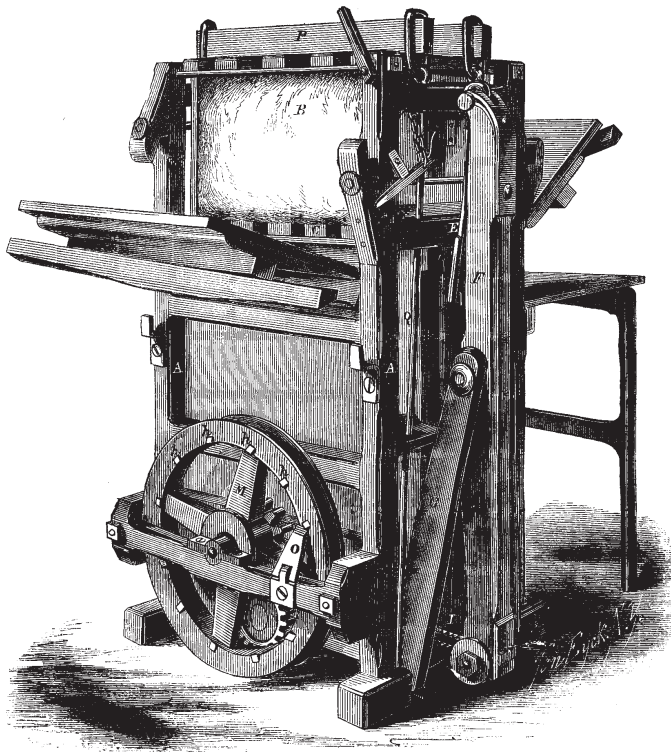
**Improved Baling Press.**

The accompanying engravings represent an improved press for use in compressing cotton, hay, &c., into bales for transportation. It is a modification of the toggle-lever press, as the reader will observe.

Fig. 1 is a perspective view of the press, and Fig. 2 is a horizontal section or a view of the press from below looking upward. The cotton, B, or other material to be pressed, is placed in the upper part of the box formed by the square framing, A, where it is compressed by forcing upward the follower, C, by means of the toggle-jointed levers, F and G. Projections from the ends of the follower pass through vertical slots in the sides of the frame, and are connected to

The upper plate, P, of the bale box is held in place by the strong iron rods, Q, at the sides of the frame, and the box is provided with movable doors and adjustable sides for convenience in regulating the size of the bale, and removing it when formed.

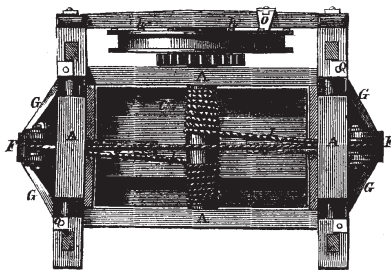
It will be seen that by placing the shaft for the rope, J, across the middle of the frame, the strain is directly endwise, and equal upon both sides, preventing any tendency to rack the frame from its proper shape, or to break it except in the few places where it may be made abundantly strong. Making the rope in a single piece prevents its stretching from deranging the uniform action of the levers upon both sides of the frame, and the position of the pulley, M, is such

*Fig. 1***ROBERTS'S BALING PRESS.**

the upper ends of the levers, F, by the links, E. Each lever, F, has hinged to it, near the middle, two levers, G, the lower ends of which diverge and rest upon a roller at the side of the frame. The lower ends of the levers, F, are provided with pulleys around which an endless rope, I, passes; this rope being wound also around a shaft in the lower end of the frame, in the manner clearly shown in Fig. 2. This shaft is connected by gears with the driving

that it does not interfere with the management of the press.

Application for a patent for this invention has been made through the Scientific American Patent Agency, and further information in relation to it may be obtained by addressing the inventor, Benjamin Roberts, at Clintondale, N. Y.

*Fig. 2*

wheel, M, which may be turned by horse or other suitable power.

It will be seen that turning the shaft in one direction will draw the lower ends of the levers, F, inward toward the frame, and thus force upward the follower, C, with the constantly-increasing power peculiar to the toggle joint; while turning the shaft in the opposite direction will allow the follower to descend.