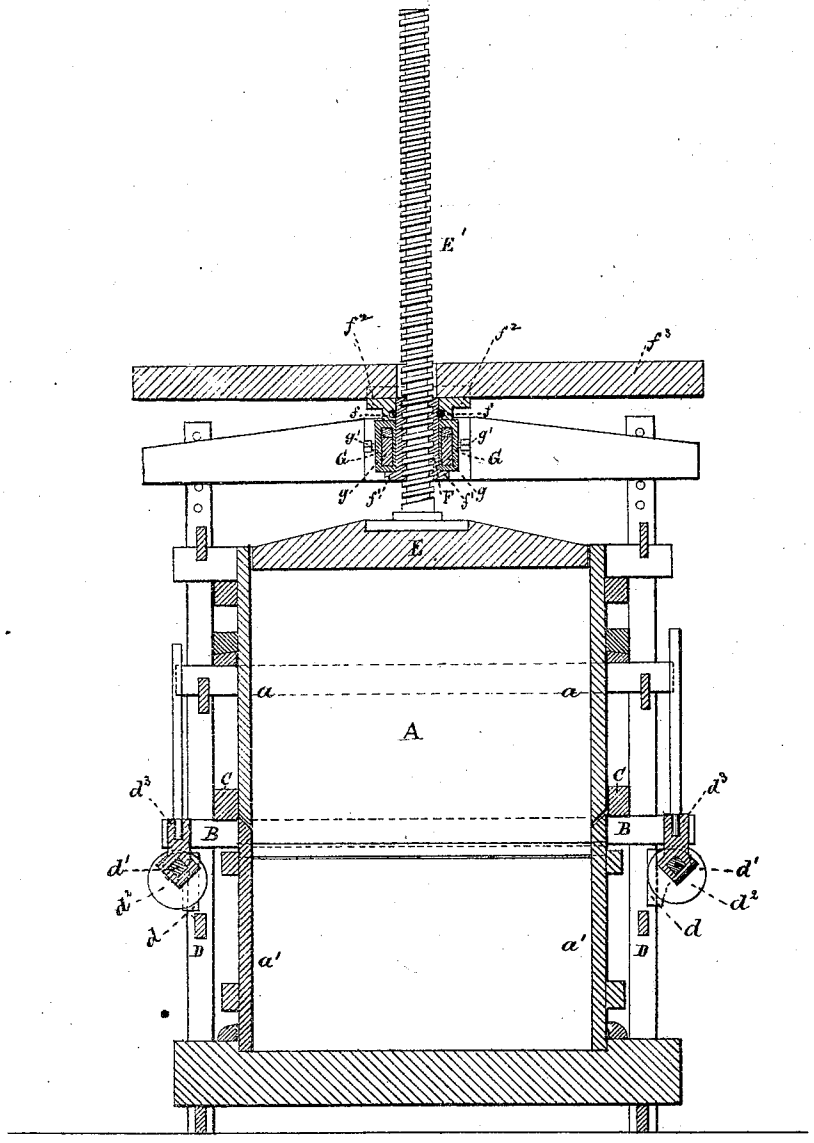
J. S. SCHOFIELD.

Improvement in Baling Presses.

No. 123,734. Patented Feb. 13, 1872.



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UNITED STATES PATENT OFFICE.

JOHN S. SCHOFIELD, OF MACON, GEORGIA.

IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. 123,734, dated February 13, 1872.

Specification describing certain Improvements upon Machines for Pressing Hay or analogous articles, invented by J. S. SCHOFIELD, of Macon, in the county of Bibb and State of Georgia.

This invention relates to improvements upon the subject-matter of patent granted to me September 3, 1867, and will be first fully described and then clearly pointed out in the claim.

The drawing is a longitudinal and vertical section through the middle of the press.

A is the press-box, consisting of two parts, *a a'*. The first is fastened together rigidly, while the latter is in four detachable sections, and locked to the lower end of the former by bars B B and C C. D is the frame, provided with brackets *d*, in which are journaled shafts d^1. On each end of these shafts are cams d^2 d^2, placed under bars B B, and in the center of said shaft is a lever-socket, d^3.

The mode of operation of this device is as follows: The bale having been pressed, the shafts d^1 are turned by a lever placed in socket d^3 until the cams d^2 raise the bars B C and unlock the sections of part *a'* of the press. Free access is thus easily and conveniently obtained to the bale by this simple locking and unlocking mechanism.

E is the ordinary follower, and E' its screw. F is a nut with which to raise and lower said screw. This nut is provided with two projecting flanges, f f^1. The top one, *f*, is a detachable cap, and provided with two channeled arms, f^2 f^2, which receive lever f^3. G is a carriage, placed between flanges f f^1, and slotted near each side so as to slide upon the guide-supports *g g*. It is clamped to the guides by screws *g' g'*.

The mode of operation of this device is as follows: The lever f^3 being placed in the channels of arms f^2 f^2, the nut F inserted through the carriage G, the cap *f* placed thereon, and the follower raised above the top of the press, the device is ready to perform its function. The set-screws *g'* being unclamped, the sliding carriage G is moved to one side, carrying along with it the screw, nut, and lever. Thus free access is obtained for the ingress of the cotton or whatever requires compression.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of bars B C and cams d^2 d^2, arranged on the ends of rock-shafts d^1, for the purpose of forming a new mechanism for locking and unlocking the part *a'* of the press.

2. The nut F, having cap-flange *f* channeled and internally threaded, combined with sliding-carriage G, screw E', and follower E, all constructed and arranged substantially as shown and described, and for the purpose set forth.

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