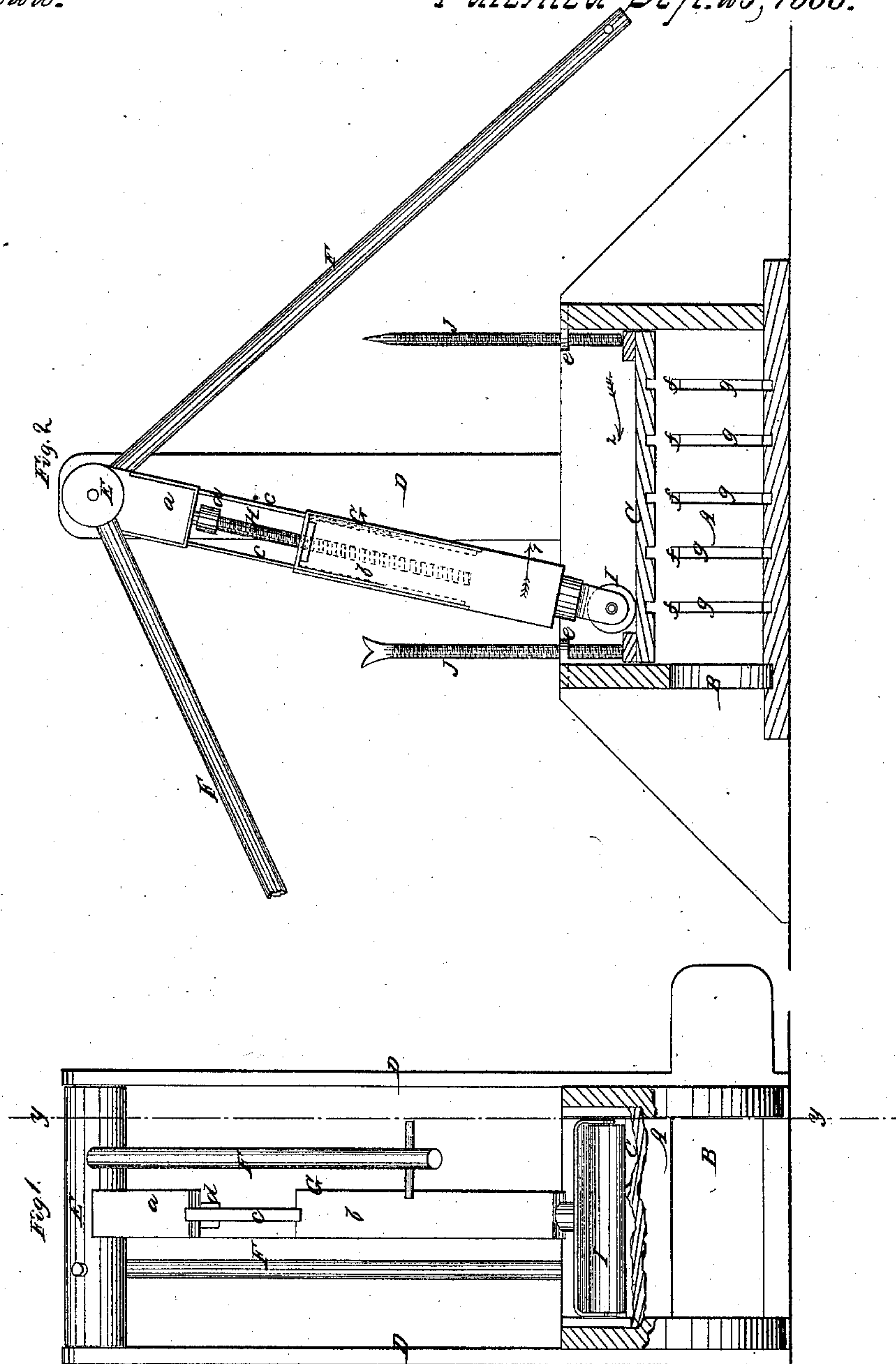


*C. C. Converse,
Hay Press.*

N^o 58,222.

Patented Sep. 25, 1866.



*Witnesses.
Jas. A. Service
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UNITED STATES PATENT OFFICE.

C. C. CONVERSE, OF NEW YORK, N. Y.

IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. 58,222, dated September 25, 1866.

To all whom it may concern:

Be it known that I, C. C. CONVERSE, of the city, county, and State of New York, have invented a new and Improved Baling-Press; 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, in which—

Figure 1 is an end view of my invention partly in section; Fig. 2, a vertical section of the same, taken in the line *y y*, Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new and improved press designed for compressing substances for baling, more especially cotton.

The object of the invention is to obtain a press for the purpose specified, which will be simple in construction, economical to manufacture, and quite portable or of limited dimensions, and still operate with great power and efficiency, without injuring the fiber of cotton or other substance operated upon.

A represents the press-box, which is of rectangular form, and is provided at one end with a sliding door, B, and has a follower or platen, C, fitted within it, the press-box being open at the top. D D are two uprights, attached to opposite sides of the press-box, extending upward a suitable distance above the same, and having a rock-shaft, E, fitted between their upper ends, to which levers F F are attached, and project from the shaft at opposite sides, as clearly shown in Fig. 2. G represents a pendent bar attached to the rock-shaft E, and constructed in such a manner as to be capable of being lengthened or shortened at the will of the operators. To effect this result I have the bar G made of two separate parts, *a b*, the upper part, *a*, being provided with guide-rods *c c*, to work in grooves in the lower part, *b*, and the upper part, *a*, having a swivel-screw, H, attached, which works in a nut in *b*. By this arrangement it will be seen that the two parts *a b* may be adjusted nearer together or further apart, as desired, and the length of the bar G graduated as occasion may require, the screw H being provided with a

square head, *d*, to which a wrench may be applied for the convenience of turning the screw.

To the lower end of the bar G there is attached a roller, I, which is equal in length to the width of the follower or platen C.

J J are two vertical screws, which pass through nuts *e e*, secured to the upper surfaces of the ends of the press-box A, as shown in Fig. 2.

The sides of the press-box A are perforated with holes *f*, and grooved at their inner sides, as shown at *g*, the bottom of the press-box being also grooved, as well as the under side of the follower or platen C, to receive the baling-cords, the ends of which pass through the holes *f*. After these cords are adjusted in the press-box the substance to be compressed and baled is placed therein, the follower or platen having been previously removed; and after the press-box is filled the ends of the cords are passed through the holes *f*, the follower or platen C placed in the press-box upon the substance or material therein, and the bar G lengthened or adjusted so that the roller I will bear snugly upon one end of the follower or platen, (see Fig. 2,) the screws J being screwed down to bear upon the ends of the platen. The levers F F are then actuated by hand or other power, and the rock-shaft E turned so as to move the bar G in the direction indicated by arrow 1; and the roller I, in moving from the end of the platen C to the center of the same, will exert a downward pressure on C as the roller I moves in the arc of a circle of which the rock-shaft E is the center, and the center of shaft E and the center of platen C are in one and the same vertical plane.

When the roller I reaches the center of the platen C its motion is stopped sufficiently long to admit of the screws J being turned down so as to bear upon the ends of the platen and hold it down, and the levers E again actuated to move the roller I over to the end of the platen opposite to the end from which it was first moved, and the screw H is turned to bring the roller I down upon the end of the platen, and said roller moved back over the platen in the direction indicated by arrow 2, until the roller reaches the center of the platen, when the roller is again stopped, the screws

J J turned down to hold the platen, and the roller I moved to the end of the platen from whence it was first started, the bar G again lengthened to bring the roller I down upon the platen, and soon until the substance within the press-box A is fully compressed, when the ends of the cords, projecting through the holes f, are tied, the screws J screwed upward, the bar G shortened, and the bale removed through the sliding door B.

By this arrangement it will be seen that a powerful pressure is exerted upon the platen C by very simple and compact means, and said means may be actuated by hand or any other power.

Having thus described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

The rock-shaft E, actuated by the levers F or other equivalent means, and provided with the extension pendent bar G, having a roller, I, at its lower end, in connection with the follower or platen C, screws J J, and press-box A, all arranged to operate substantially in the manner as and for the purpose set forth.

The above specification of my invention signed by me this 30th day of May, 1866.

CHARLES CROZAT CONVERSE.

Witnesses:

WM. F. McNAMARA,
ALEX. F. ROBERTS.