

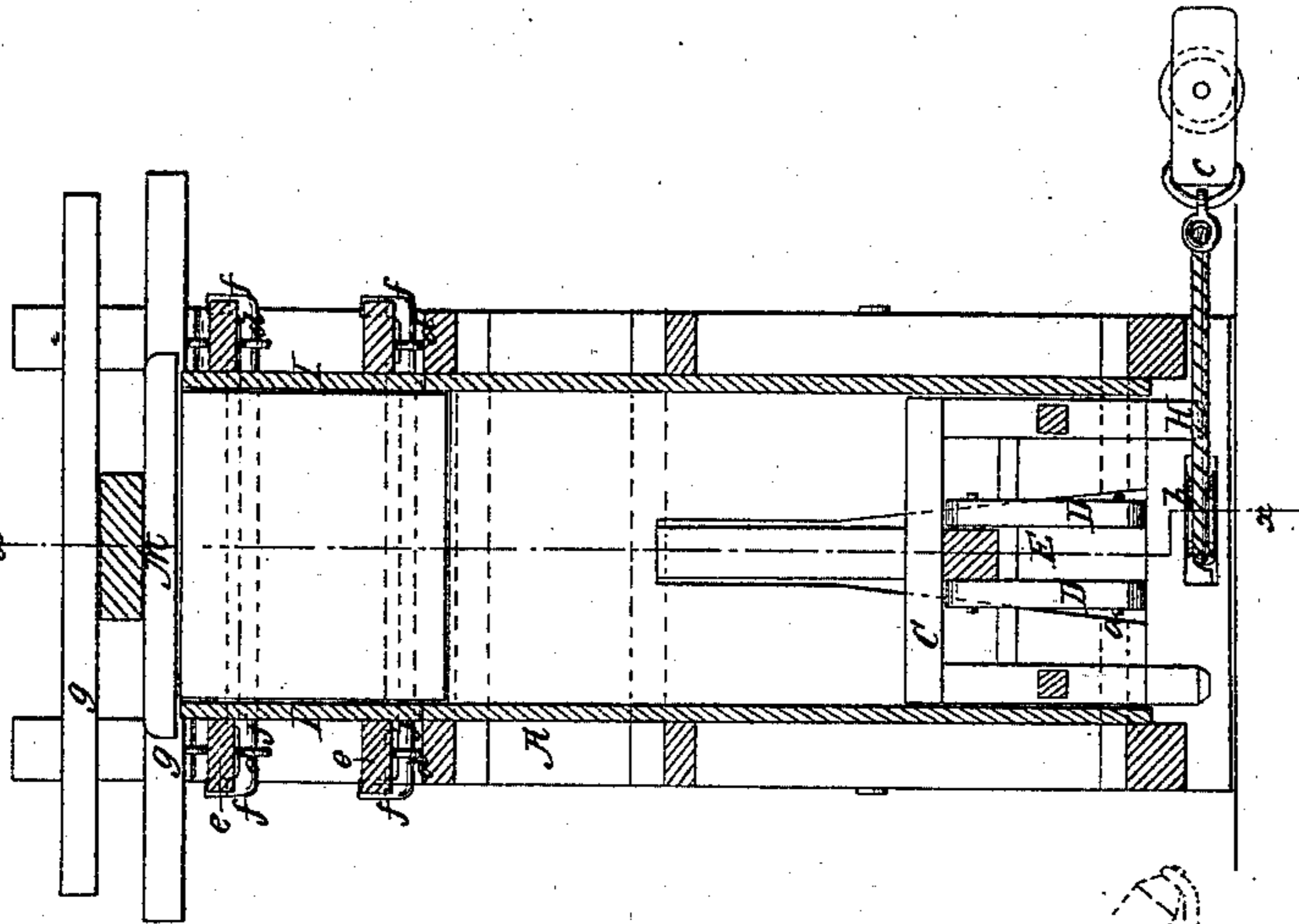
*J. W. Roberts,*

*Hay Press,*

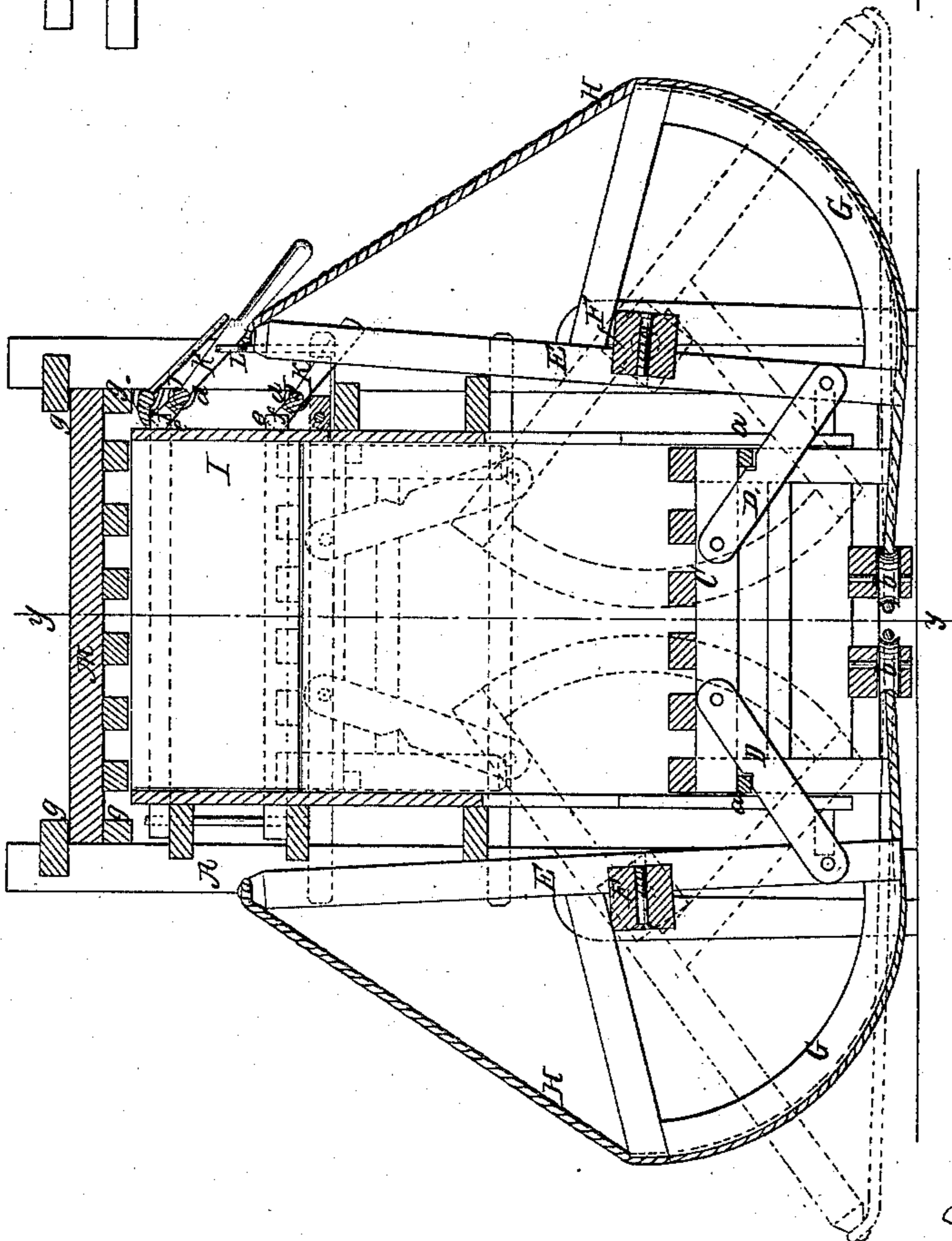
*Nº 43,132,*

*Patented June 14, 1864.*

*Fig. 2.*



*Fig. 1.*



*Witnesses;*  
*W. C. Connelley*  
*Geo. Reed*

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# UNITED STATES PATENT OFFICE.

JOHN W. ROBERTS, OF NEW MONMOUTH, NEW JERSEY.

## IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. 43,132, dated June 14, 1864.

*To all whom it may concern:*

Be it known that I, JOHN W. ROBERTS, of New Monmouth, in the county of Monmouth and State of New Jersey, 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 any person skilled in the art to make and use the same, reference being had to the accompanying drawings, making a part of this specification, in which—

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

Similar letters of reference indicate the same parts.

This invention relates to a new and improved press for compressing substances for baling, such as hay, cotton, hops, &c.

The object of the invention is to obtain a press for the purpose specified which will be very compact and occupy but little space, so that it may be operated in a building or compartment of moderate height, and still compress substances into bales of the ordinary dimensions.

A represents the framing of the press, of rectangular form, and having the press-box B fitted within it. These parts may be constructed in the usual way, and therefore do not require a minute description.

C represents a follower, which is fitted in the press-box B, and is allowed to rise and fall freely therein. To the under side of this follower C there are connected two pairs of levers, D, which project through vertical slots *a* in the side of the press-box, and are connected at their outer ends to the lower parts of levers E E, which are attached to rock-shafts F F, there being a shaft F and a lever E at each side of the press-box, as shown in Fig. 1. Each lever E has a segment, G, at the lower part of its outer side, and to the upper end of each lever E a rope, H, is attached, said ropes extending down around the segments G G, underneath the press-box B, and around two guide-pulleys, *b b*, and are there connected to a block, *c*, through which a windlass-rope passes. The segments G G serve to

admit of the ropes H H, actuating the levers E E, and at the same time admit of said ropes being carried or passed down underneath the press-box, as shown, thereby constituting a very compact arrangement for a lever-press. The follower C, it will be seen, is forced upward as the levers E E are drawn down.

The doors I I of the press-box are at its upper end—one at the front and the other at the rear—said doors being hinged or hung to the framing A at the same side, and they are retained in a closed state by means of a fastening composed of two horizontal shafts, J J, the bearings *d d* of which are attached to the framing A. These shafts J J are in line with cleats or battens *e e*, which are secured to the outer surfaces of the doors I I, and said shafts are bent at each end, as shown at *f*, in order to catch over the ends of the cleats or battens, as shown clearly in Fig. 2. Each shaft J has an arm, K, projecting from it at right angles, and these arms are connected by a link, L, which insures a simultaneous movement of the two shafts when power is applied to either one of them for the purpose of fastening or unfastening the doors. The arm K of the upper shaft J is extended or prolonged, in order to serve as a lever for manipulating the fastening. By this arrangement a very simple and efficient fastening for the doors C is obtained.

The top M of the press-box may be readily removed when required, as its ends are simply fitted between bars G at the upper part of the framing A.

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

The combination of the levers E E, provided with the segments G G, in connection with the levers D D and with the shafts J J, provided with bent ends *f*, and connected by the arms K K and link L, in the action upon the box B, and fastenings of its doors, all substantially as described.

JOHN W. ROBERTS.

Witnesses:

RUTSEN SNYDER,  
WILLIAM GRIGGS.