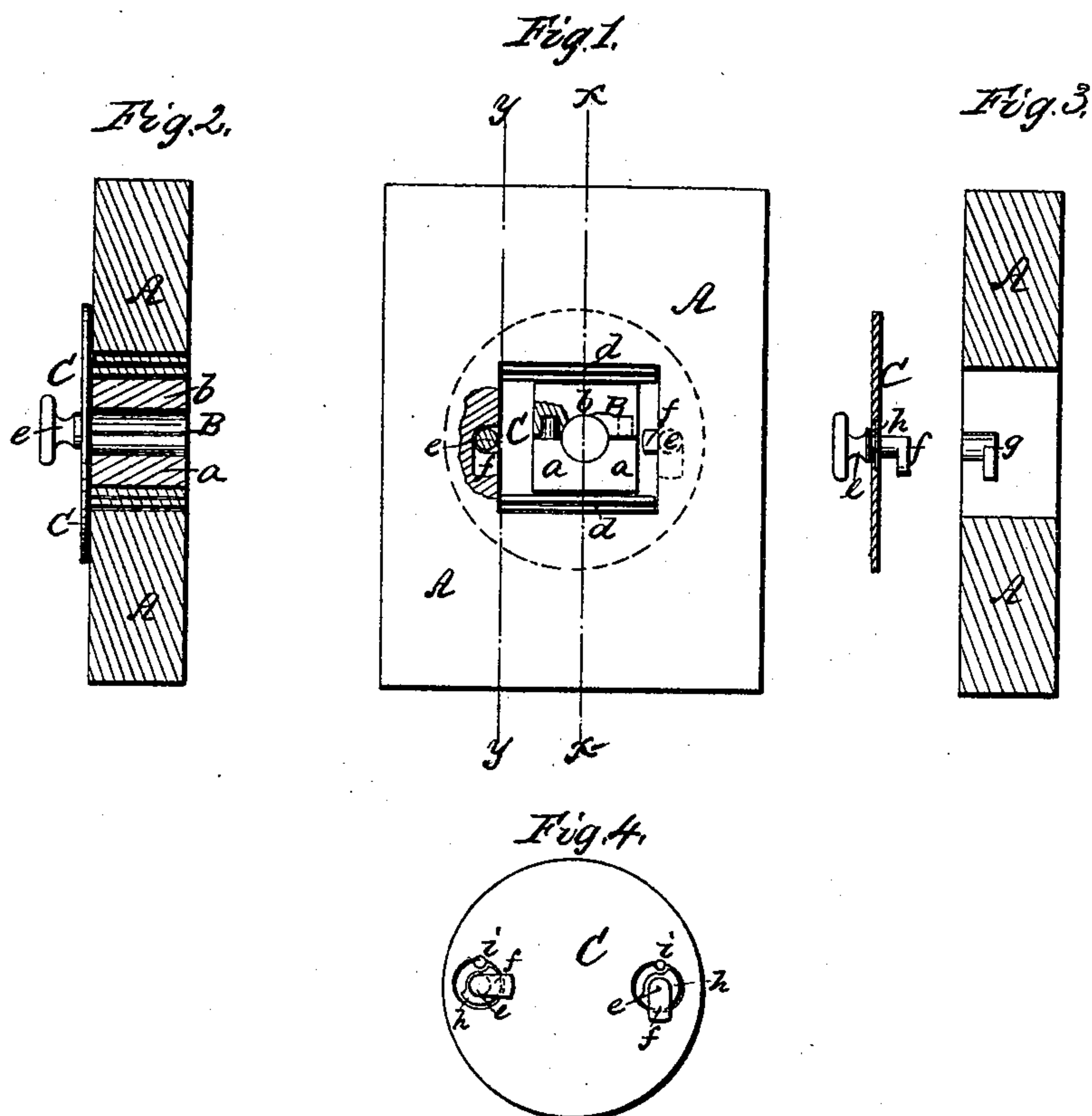


*W. Welch,*  
*Cotton Press.*

*N<sup>o</sup> 68,540.*

*Patented Sep. 3, 1867.*



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# United States Patent Office.

WILLIAM WELCH, OF BRIDGEPORT, CONNECTICUT.

*Letters Patent No. 68,540, dated September 3, 1867.*

## IMPROVED LOCKING DEVICE FOR GATES IN PRESSES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM WELCH, of Bridgeport, in the county of Fairfield, and State of Connecticut, have invented a new and useful improvement in Locking Device for Gates in Presses; 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 represents an inside or back view, partly in section, of my invention.

Figure 2 is a vertical section of the same, taken on the line *x x*, fig. 1.

Figure 3 is a vertical section of the same, taken on the line *y y*, fig. 1.

Figure 4 is a back view of the covering-plate.

Similar letters of reference indicate like parts.

This invention relates to an improvement in the manner of securing the cap for covering the sliding-box in the gate of a power-press to the gate; said sliding-box being the bearing for the eccentric shaft, whereby the gate is operated.

My invention consists in securing revolving hooks to the said covering-plate, which catch into recesses provided in the gate, so that thereby the plate can be quickly secured to or removed from the front of the gate. In combination with the above device for securing the covering-plate, I have also improved the sliding-box, which is made in two halves, for the purpose of more easily getting at the bearing of the shaft. Heretofore the covering-plates were always secured to the gate by means of four screws, and could therefore not be removed or attached with sufficient facility.

A represents the gate of a power-press. B is the sliding-box and bearing for the eccentric shaft by which the gate is moved up and down. The box B is arranged in a slot in the gate as usual. The box B is made of two pieces, *a* and *b*, the lower one, *a*, having two pins *e e*, which fit into corresponding holes in the upper half *b*. The slot in the gate is wider than the box B is high, so that between the upper or lower edge (or both) of the box and the corresponding sides of the slot, a space is left, into which plates, *d d*, of brass or other suitable metal are placed. When it is desired to open the box B it is only necessary to remove the plates *d*, or some of them, when the cover *b* can be taken off, or the whole box removed, as may be desired. C is the plate which covers the slot in the gate. Through the same are fitted two or more pins *e*, which are swivelled into it, so that they cannot be pulled out of the plate, but can revolve therein. On their outer ends these pins have handles of suitable kind. On their inner ends they are provided each with a projecting pin or crank *f*. These pins *e*, when the plate C is secured to the gate, fit into recesses *g*, which are formed in the gate A in such a manner that when applied the pins are turned so that the cranks *f* fit into the recesses, and thus lock the plate to the gate. The shape and form of these pins and recesses are better understood from fig. 3, in which the plate C is represented as being removed from the gate. To prevent the pins being turned too far in any one direction, the shoulders *h*, on their inner or outer sides or plates, which may otherwise be attached to them, are provided with segmental slots or recesses cut into the rims, (see fig. 4,) through which pins *i*, which are fixed to the plate C, fit. The pins *e* can thus only be turned until the ends of the slots in *h* strike against the pins *i*.

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

1. The plate C, secured to the gate of a power-press, by means of the pins *e*, having cranks *f*, and slotted plates *h*, as herein shown and described.
2. The box B, when made of two pieces, in combination with the plates *d d*, for the purpose of permitting the easy removal of the box, substantially as herein shown and described.
3. The arrangement of the removable box B between the plates *d*, and pins *e*, on the plate C, as herein set forth for the purpose specified.

Witnesses:

MATTHEW DIAMOND,  
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