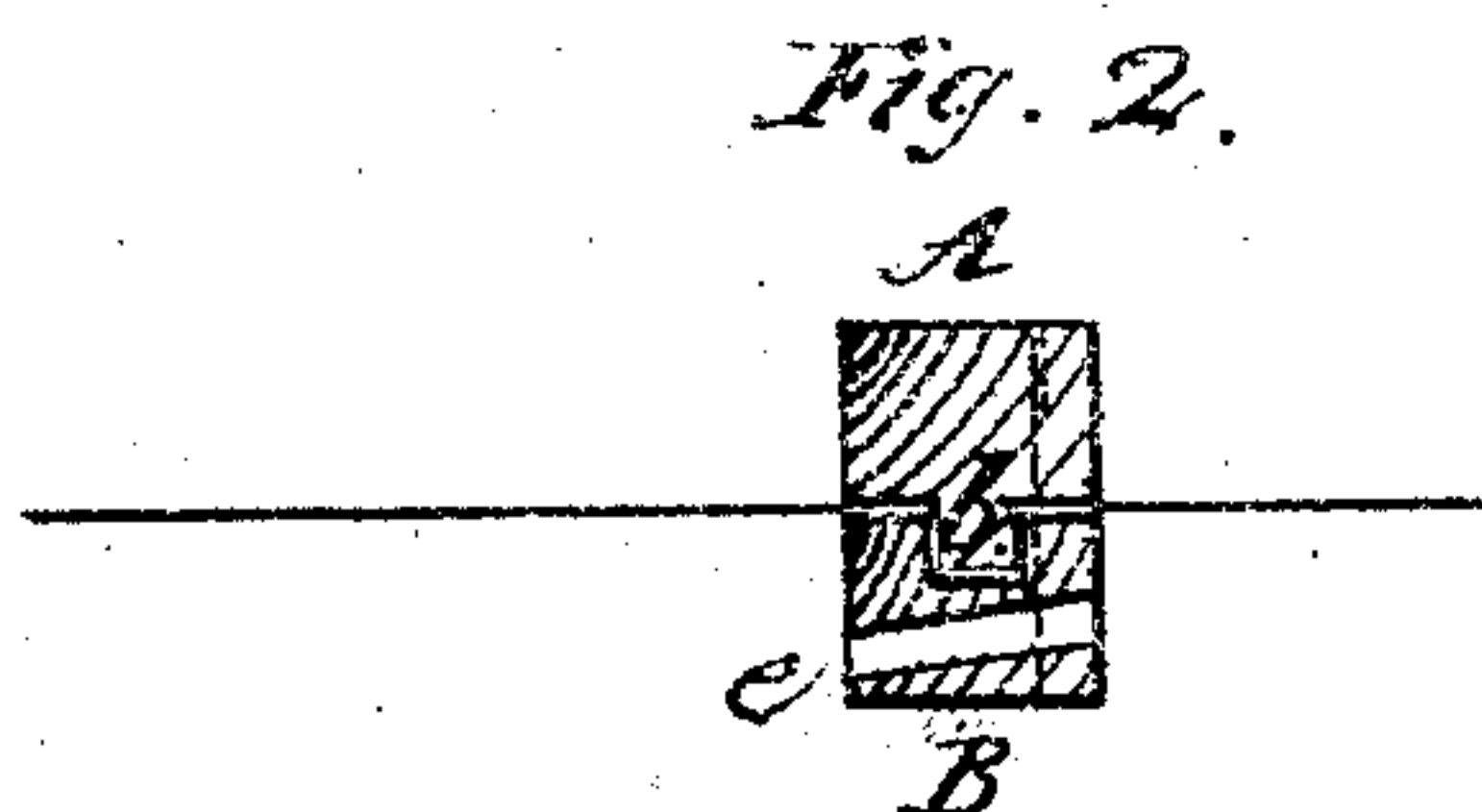
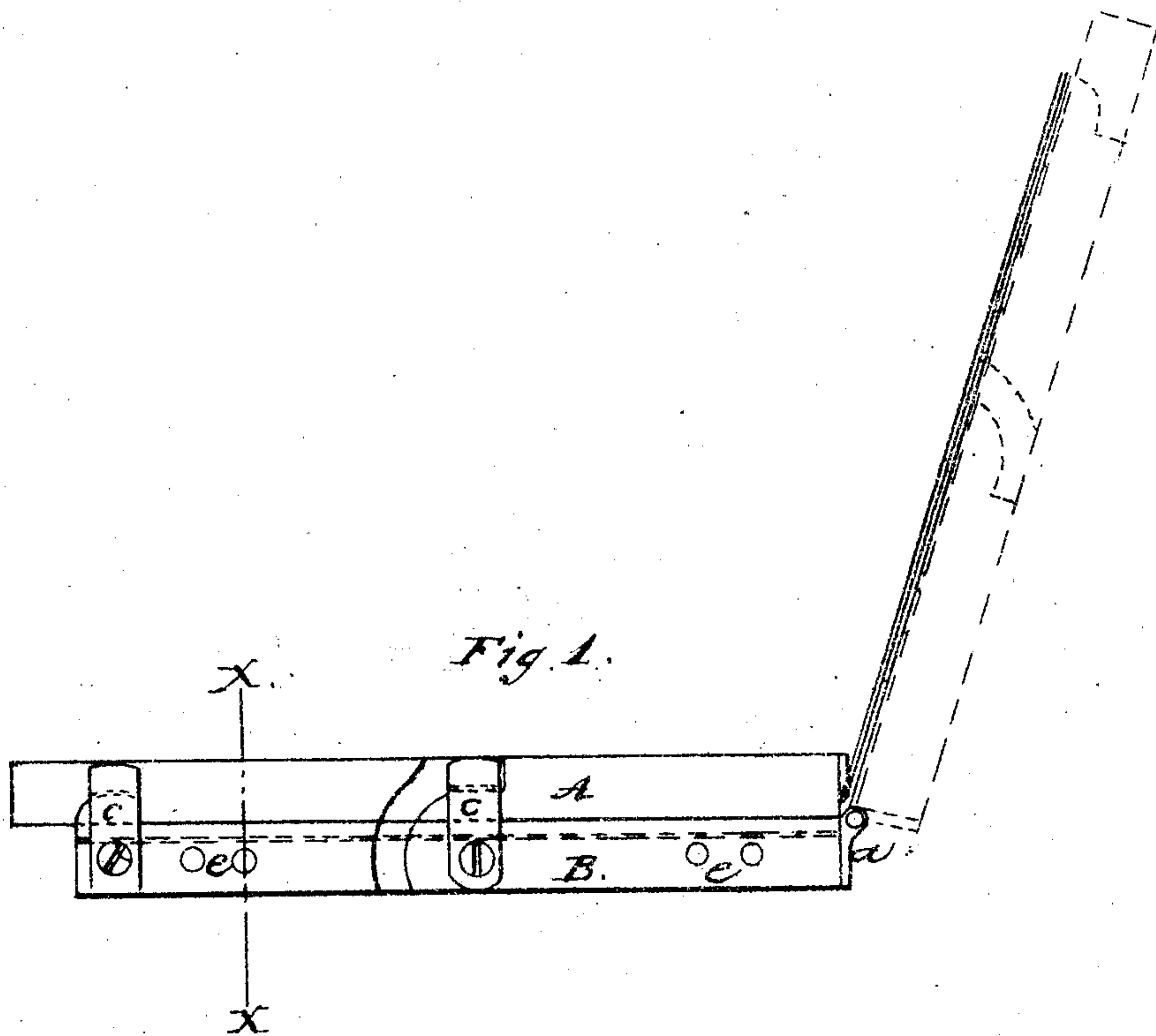


C. Powers.

Clamp for Holding Warp.

N<sup>o</sup> 76246

Patented Mar. 31, 1868.



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# United States Patent Office.

CYRUS POWERS, OF GREENWICH VILLAGE, MASSACHUSETTS.

*Letters Patent No. 76,246, dated March 31, 1868.*

## IMPROVEMENT IN CLAMP FOR HOLDING PALM-LEAF WARP.

*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, CYRUS POWERS, of Greenwich Village, in the county of Hampshire, and State of Massachusetts, have invented a new and useful Improvement in Clamp for Holding Palm-Leaf Warp; 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 a front side view of my improved clamp.

Figure 2 is a cross-section in the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new and useful improvement in a clamp for holding palm-leaf warp, to be attached to the apron of the cloth-beam of a loom for weaving palm-leaf web for hoods, or other purposes. It consists in two small strips of hard wood, or other suitable material, jointed together at one end, so that they can lie together or be opened widely apart, on one of which pieces is a tongue that fits into a groove in the other piece, running longitudinally, for holding firmly the end of the palm-leaf warp during the operation of weaving. The advantage of it is, a great saving of time, and also of material, in arranging and securing the warp.

A represents one part of the clamp, joined at one end by the hinge *a* to the other part, B. On the inside of the piece A is a longitudinal tongue, *b*, which fits into a corresponding groove in the inside of the other piece, B, when the two pieces are closed together, as shown clearly in fig. 2. The pieces A and B, when closed, are held together by buttons, *c c*, on the front side, or in any other convenient manner, and they firmly clamp the palm-leaf warp. The holes *e e* are made through each end of the part B, for receiving small set-pins, for attaching the clamp temporarily to the breast-beam of a loom while the warp is arranged in it.

The clamp is applied and used by first securing it to the breast-beam of the loom, with the set-pins inserted through the holes *e e*, by which it is held in place while the end of the palm-leaf warp is passed over the grooved part B and placed properly, and while the other part, A, is open, as shown in red lines, fig. 1; then, by closing the clamp, the tongue *b* will bind upon the warp, and the pins are removed from the holes *e e*, to disengage it from the breast-beam of the loom, ready for the weaving.

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

The removable clamp for holding palm-leaf warp, constructed as described, consisting of the grooved piece B and tongued piece A, hinged together at *a*, and provided with the notches and catches *c*, as herein shown and described.

CYRUS POWERS.

Witnesses:

F. C. POWERS,

DAVID ALLEN.