

(No Model.)

W. S. LARIMER.
HINGE.

No. 401,036.

Patented Apr. 9, 1889.

Fig. 1.

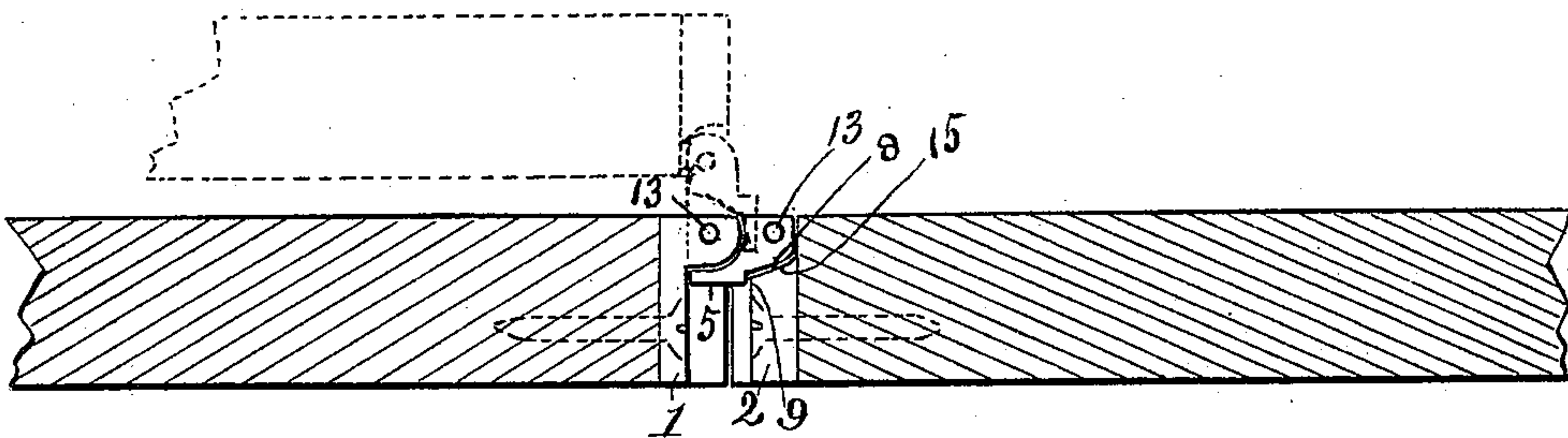


Fig. 2.

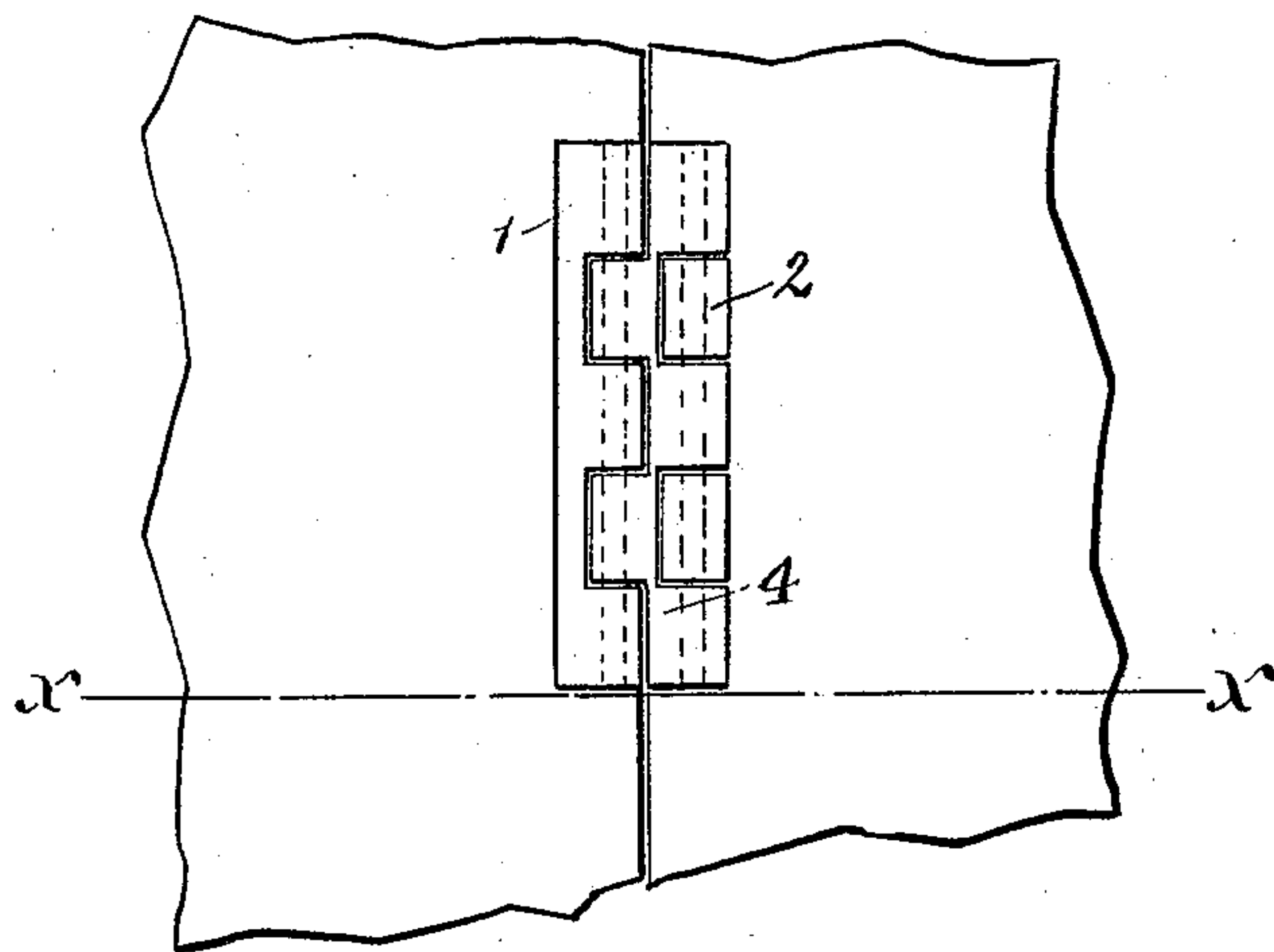
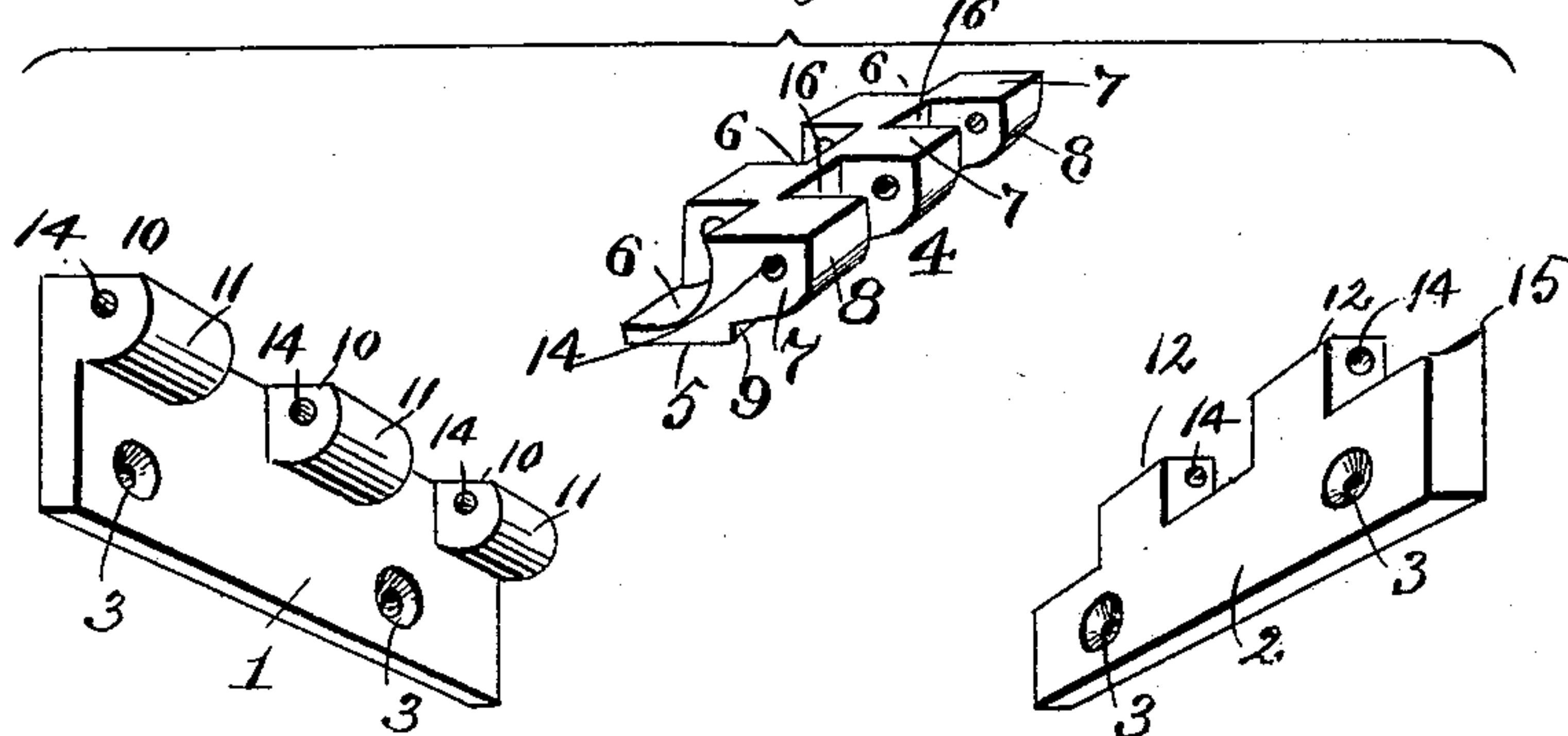


Fig. 3.



WITNESSES:

J. D. Gaffney
E. M. Clark

INVENTOR:

W. S. Larimer

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM S. LARIMER, OF GLEN EBON, OHIO.

HINGE.

SPECIFICATION forming part of Letters Patent No. 401,036, dated April 9, 1889.

Application filed July 27, 1888. Serial No. 281,177. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. LARIMER, of Glen Ebon, in the county of Athens and State of Ohio, have invented a new and Improved Hinge, of which the following is a full, clear, and exact description.

This invention relates to an improvement in hinges, and has for its object to provide a double flush hinge which is adapted to be used as a single or double hinge.

The invention consists in a double flush hinge and in details thereof, constructed and arranged as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a side view, in horizontal section, with parts broken away, of two parts connected together by a hinge constructed in accordance with this invention. Fig. 2 is a plan view thereof; and Fig. 3 represents the several parts of the hinge detached.

In the construction of this invention the hinge is formed in three parts, consisting of the plates 1 2, with screw-holes 3, which are secured to the parts to be hinged, and the intermediate rotary supporting-piece 4, formed with the flat face 5 extending from end to end thereof, the concave recesses 6, and the lugs 7, having convex sides 8, and shoulder 9, extending from end to end of supporting-piece 4, which abuts against plate 2 when the hinged parts are in the same plane.

The plate 1 is formed with lugs 10, having convex sides 11, which are located in the concave recesses 6 in piece 4; and the plate 2 is formed with square lugs 12, which project between the lugs 7 on piece 4, the parts 1 2 4 of the hinge being pivoted together by means of pins 13, which extend through holes 14 in the lugs 10 in the piece 4, adjacent to recesses 6 in the lugs 7. In this arrangement of parts the recesses formed by lugs 12 break joints with the recesses 6. The plate 2 is also formed with a concave edge, 15, which fits over the convex sides 8 of the lugs 7 and permits it to move thereon. The back of the spaces between lugs 7 is concaved or hollowed out, as at 16, to permit of the free movement of the lugs 12.

By means of a hinge constructed as hereinbefore described the back of the hinge will be flush when the hinged portions are in the

same plane, as shown in Fig. 2. One of the hinged parts may also by this construction of hinge be folded entirely back, so as to rest upon the other part, as shown in dotted lines in Fig. 1. This is especially advantageous in the case of upright lids of pianos, as the lid may be folded back onto the top of the piano and be out of the way. The hinge is intended to be used with doors, desk-lids, covers, &c.

If it be desired to use the hinge as a single hinge, the piece 4 may be removed by withdrawing pins 13 and pivoting the plates 1 2 directly together by means of pins 13 engaging lugs 10 and 12.

By means of this invention a strong and durable double hinge is provided which will not project out from the hinged parts, by means of which a lid or cover may be entirely turned back, and which may be converted into a single hinge.

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

1. A hinge consisting of two securing-plates provided with lugs, the lugs of one plate being square and those of the other plate having convex sides, and an intermediate supporting-piece provided with concave recesses on one side and with convex lugs on the opposite side, substantially as described.

2. A hinge consisting of the securing-plate 1, with lugs 10, having pintle-holes 14 and convex sides 11, the securing-plate 2, having square lugs 12, with pintle-holes 14, and the concave edge 15, adjacent thereto, and the intermediate rotary supporting-piece, 4, having the plane face 5 extending throughout its length, the concave recesses 6, in which are located lugs 10, the lugs 7, with convex sides 8, the lugs 12, located between lugs 7, and the piece 4, having pintle-holes 14, and pivoted to plates 1 and 2 by removable pins 13, substantially as shown and described.

3. In a hinge, the combination of the plate 1, provided with the lugs 10, having apertures 14 and convex sides 11, and the plate 2, having concave edge 15, and provided with the square lugs 12, having apertures 14, substantially as herein shown and described.

WILLIAM S. LARIMER.

Witnesses:

HANCE THURNESS,
TIDE HOUSTON.