

(No Model.)

M. E. JONES.
BED SPRING FIRE ESCAPE.

No. 294,882.

Patented Mar. 11, 1884.

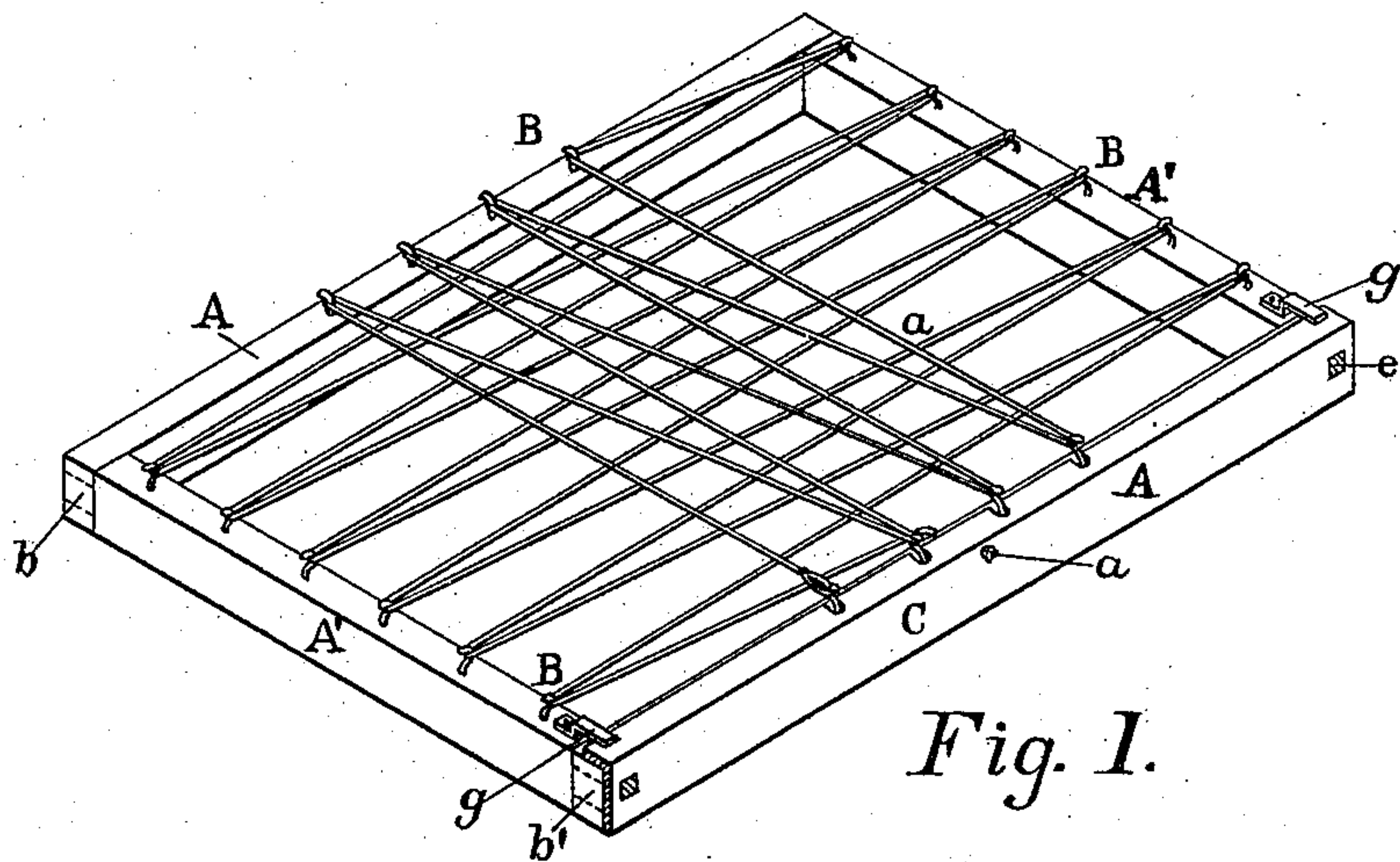


Fig. 1.

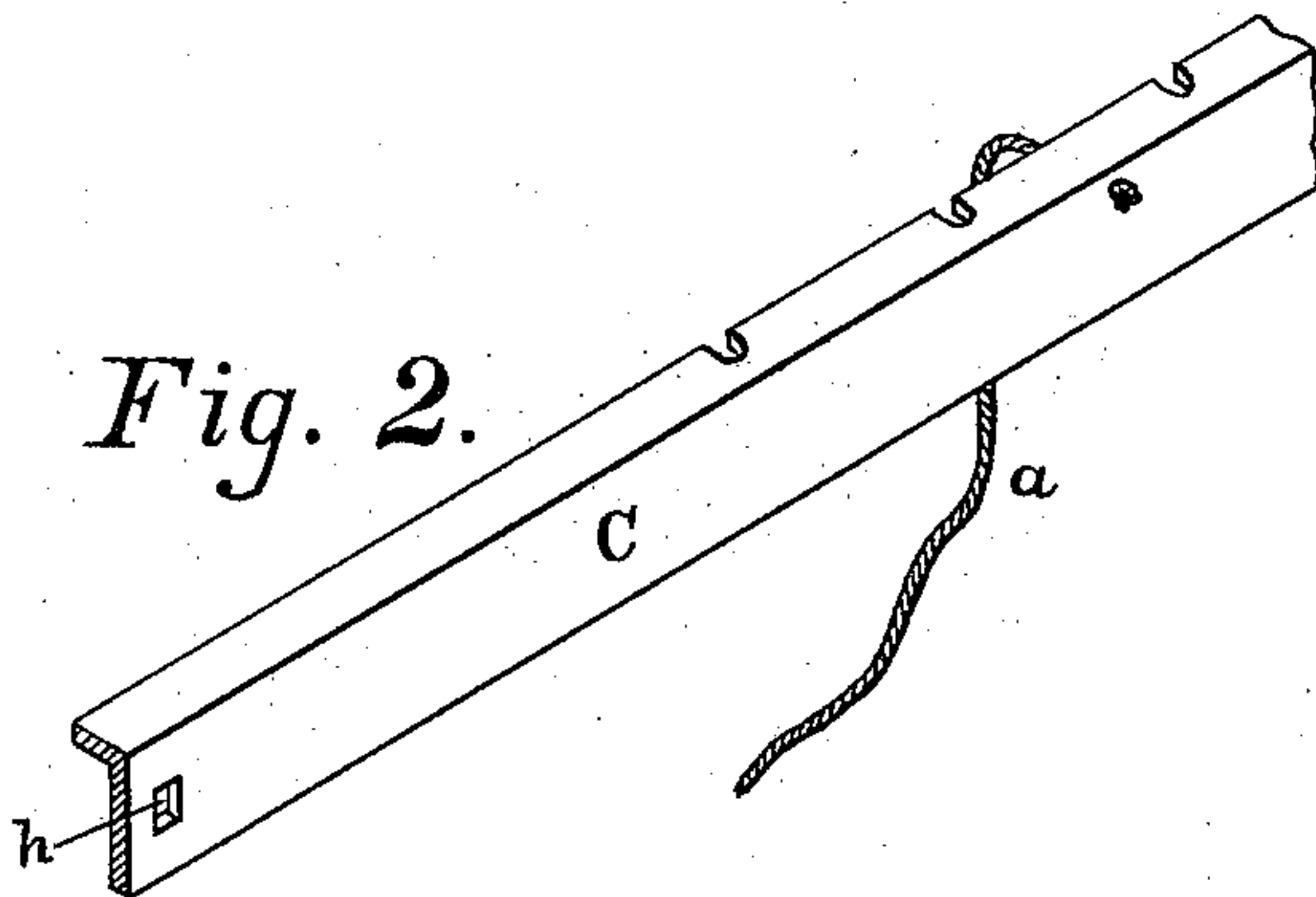


Fig. 2.

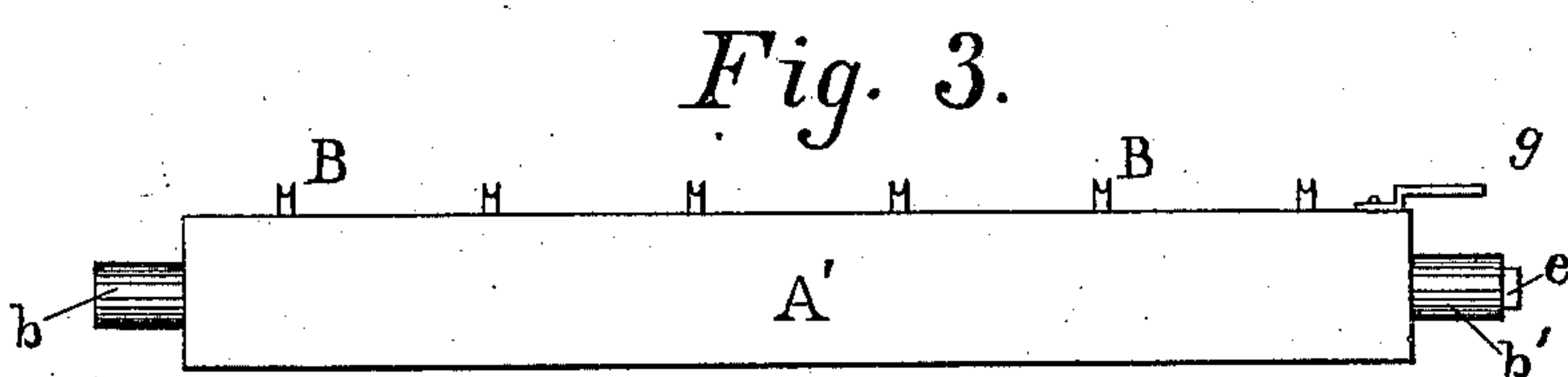


Fig. 3.

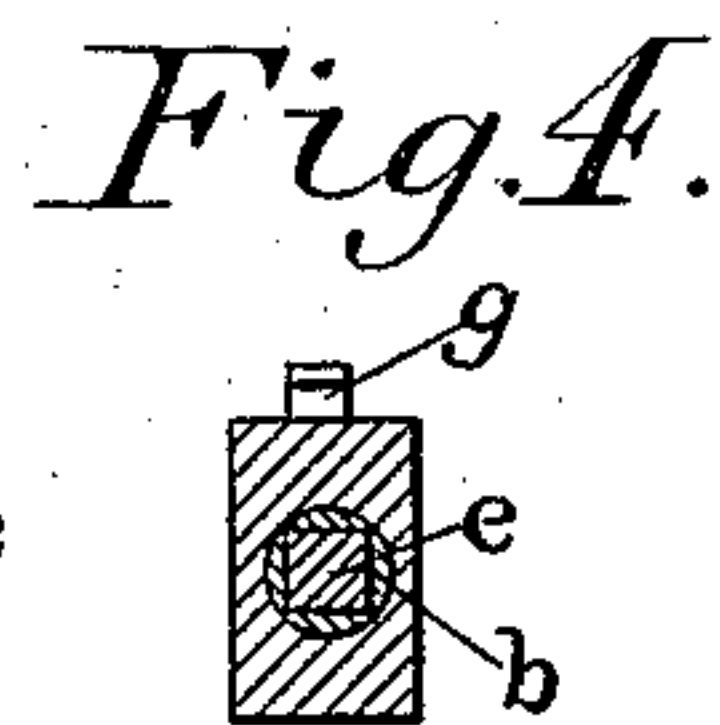


Fig. 4.

Witnesses:
J. S. Collman
O. Kueffner

Inventor:
Mary E. Jones

UNITED STATES PATENT OFFICE.

MARY E. JONES, OF ST. PAUL, MINNESOTA.

BED-SPRING FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 294,882, dated March 11, 1884.

Application filed April 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, MARY E. JONES, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Bed-Spring Fire-Escapes, of which the following is a specification.

My invention relates to bed-spring fire-escapes in which a detachable side bar of iron or other metal is secured to the side of the bed-spring by means of a spring-clamp, so adjusted that it may with great readiness be detached in case of fire, and with the cord constituting the spring of the bed to act as a fire-escape in case of necessity. I attain these objects through the medium of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an isometric projection or elevation of the complete spring with parts *in situ*. Fig. 2 is a view of the side bar detached with the rope fastened to it as used in a fire-escape. Fig. 3 is a view of the end bars of the bed-spring, showing the arrangement of the terminal tenons. Fig. 4 is an end view of the end or foot bar of the spring in section.

Similar letters refer to similar parts throughout the several views.

I construct a frame similar to the ordinary frame for a bed-spring of four pieces of wood, A A' A'. These bars, both the end bars, A', and the side bars A, are provided with bent hooks B, on which a bed cord or rope, *a*, is wound to support the mattress. The ends of the head and foot bars A' and A' are provided with tenons of pinions on these ends, *b* and *b'*, which fit into mortises cut in the end of the side bars A A to accommodate them. The pinions *b* and *b'* are round, so that they may turn readily in their sockets when occasion requires. The ends of these cross-bars have the tenons *b'* and *b'* round, as in the former instance, so far as they extend through the side bars A; but the extension which is made to fit into the metallic side bar *c* is made square, to prevent the turning of the end bars, A', when the bar *c* is in position. The side bar *c* is made of a piece of L-shaped metal, moderately stout, fitted to the side bar A, and secured to it and prevented from slipping up when in position by the spring *g*, which is secured to the foot-bars A'. Near the center

of the side bar *c* the cord *a* is attached. These bars A and A' are all provided with elastic hooks, on which the cord (of hemp, cotton, or wire) *a* is wound to form an elastic support for the mattress.

In applying my invention I fit the two bars A' to the two bars A by means of the tenons *b* and *b'* and the mortises corresponding with them. I then adjust the metal bar *c* on the square tenon *e*, and place the whole inside of the frame of the bedstead, supporting it by the slats. I then wind the cord *a* on the hooks B to give support to the mattress, drawing the cord tight enough to depress the elastic hooks B and give elasticity to the entire structure, securing the end of the cord.

In case of a fire, I simply raise the side of the bed on which the metal bar is attached, draw it off of the tenon *e* and from under the flat spring *g*, which the elasticity of the cord will permit, when the end bars, A', will, by the weight of the mattress and superimposed clothes, rotate in the round mortises in the ends of A and detach the cord *a* from the hooks, which, being secured to the metal bar *c*, is used in escaping from a window, the metal bar *c* being placed across the window-frame, inside.

I do not in this application lay claim to bed-springs constructed of cords, nor the use of a metal bar and cord as a fire-escape; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, in a fire-escape bed-bottom, with a frame supporting spring-hooks, and having round and square tenons on the ends of the end bars, of a slotted metal bar, whereby the end bars may be rotated or held stationary by the removal or adjustment of said slotted metal bar, substantially as set forth and described.

2. The combination, in a fire-escape bed-bottom, of a metallic side bar, to which the suspending-cord is attached, having mortised ends, and end bars having round and square tenons and metallic springs, substantially as set forth and described.

MARY E. JONES.

Witnesses:

J. S. COLLMAN,
OTTO KURFFNER.