

J. KELLNER.  
FIRE-ESCAPE AND SPRING BED-BOTTOM.

No. 194,153.

Patented Aug. 14, 1877.

Fig: 1.

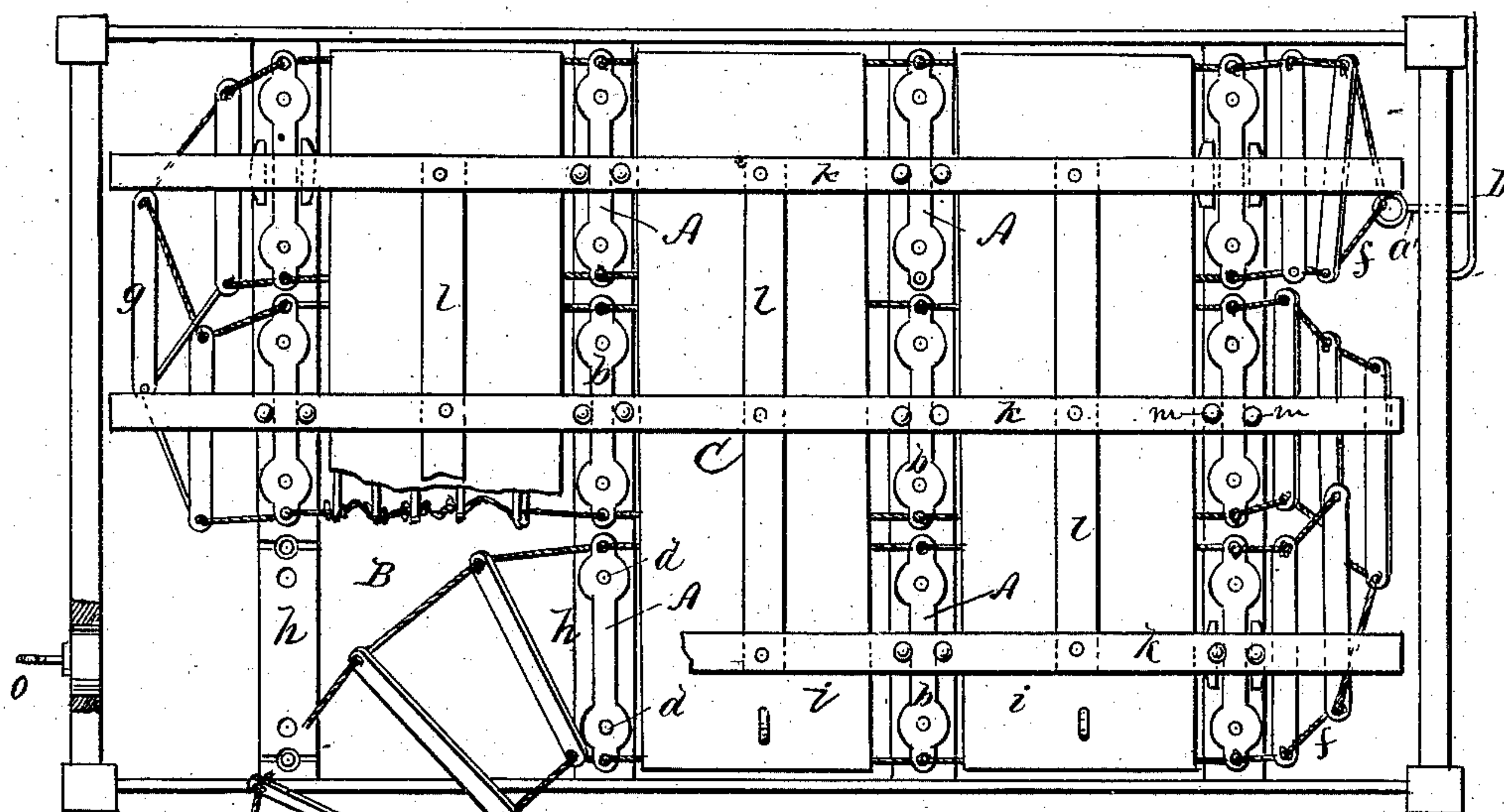


Fig: 2.

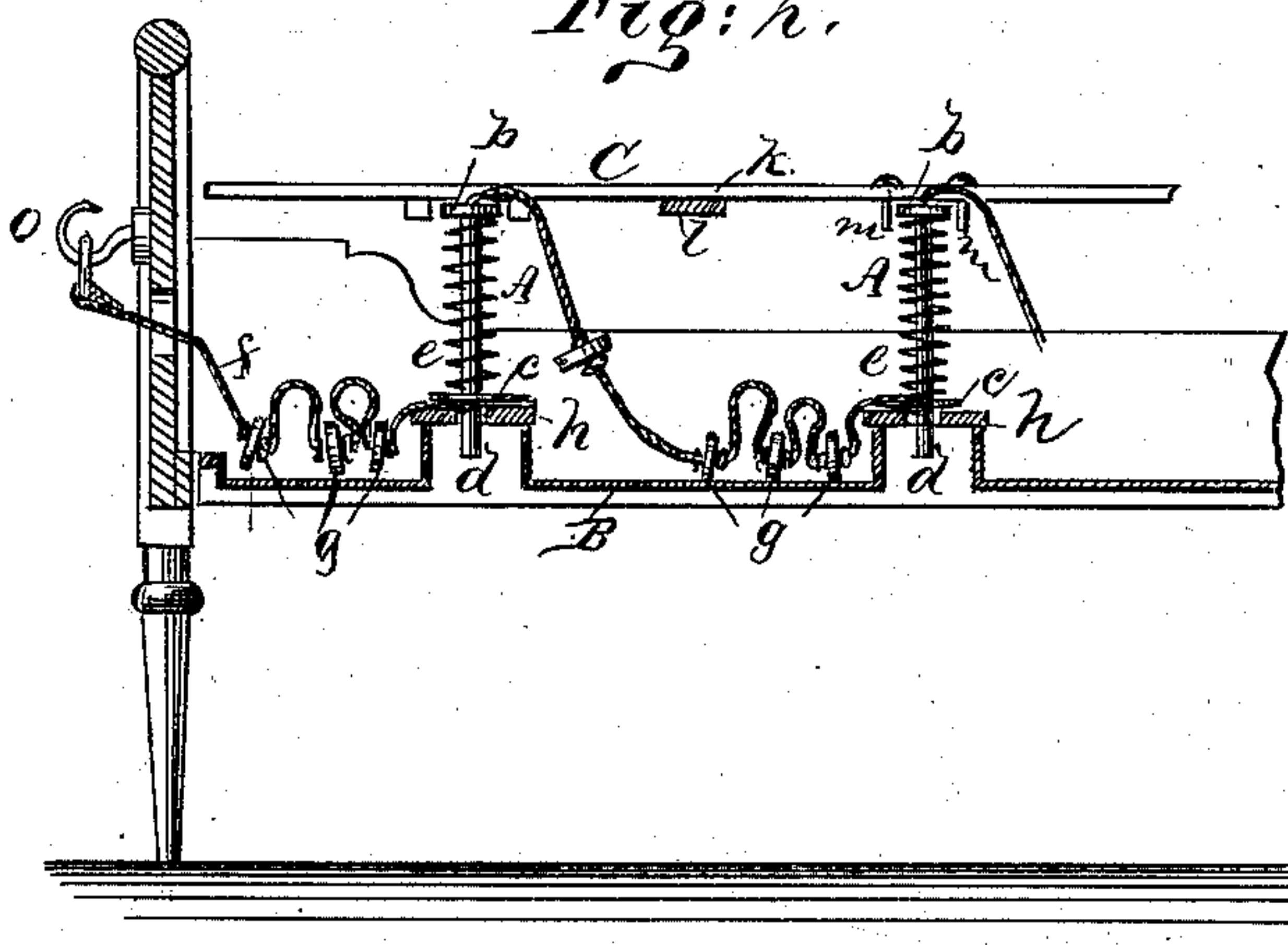


Fig: 3.

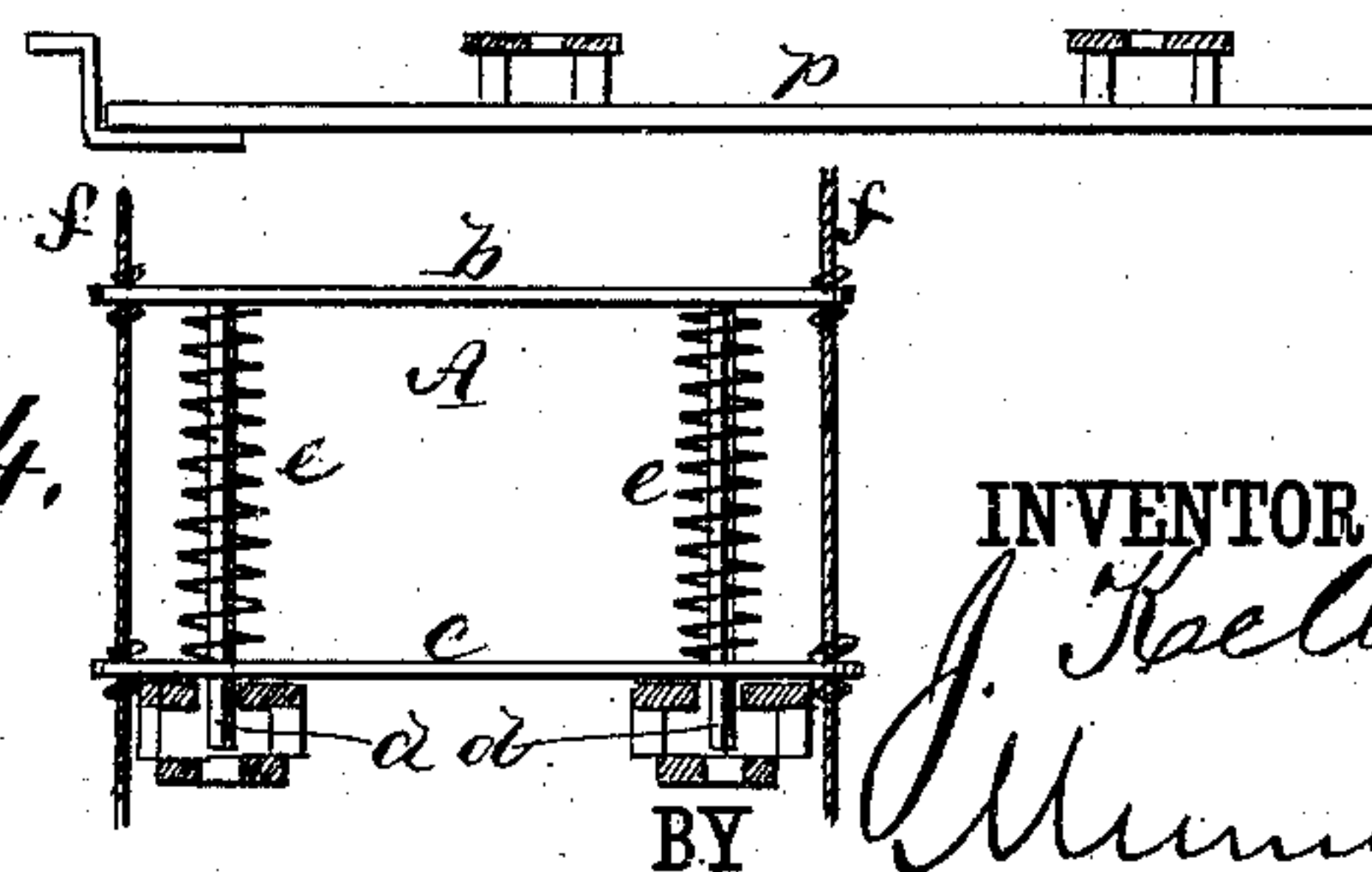
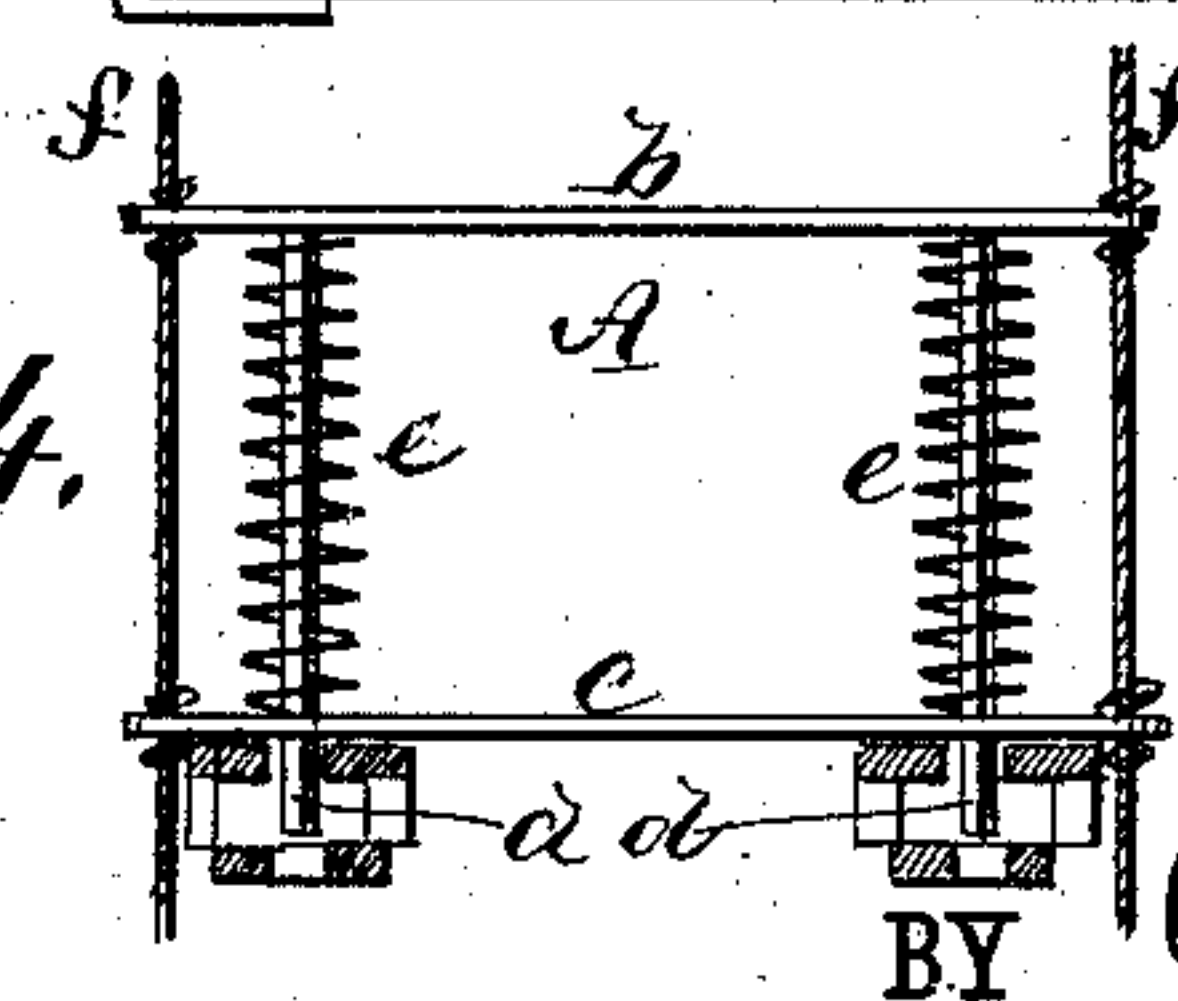


Fig: 4.



WITNESSES:

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## IMPROVEMENT IN FIRE-ESCAPE AND SPRING BED-BOTTOM.

Specification forming part of Letters Patent No. **194,153**, dated August 14, 1877; application filed June 30, 1877.

*To all whom it may concern :*

Be it known that I, JOSEPH KELLNER, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Fire-Escape and Spring Bed-Bottom, of which the following is a specification :

Figure 1 is a plan view of my improved spring bed-bottom with parts broken away to show the construction more clearly. Fig. 2 is a partial side elevation in section. Figs. 3 and 4 are detail views of a modification of parts of the device.

Similar letters of reference indicate corresponding parts.

My invention consists in the combination of a number of spring sections and bars with two ropes, the sections forming a bed-bottom when placed in a bedstead adapted to receive them, and in case of fire form an escape that may be instantly adjusted for use.

In the drawing, A A are spring-sections, composed of the bars *b c*, rods *d*, and springs *e*. The rods *d* project from the face of the bar *b*, and extend through holes in the bar *C*, and upon the said rods, between the bars *b c*, the springs *e* are placed.

Holes are made in the ends of the bars *b c* to receive ropes or chains *f*, and between the sections bars *g* are attached to the ropes *f*.

The bedstead in which this device is placed is provided with slats *h*, in which holes are made to receive the projecting ends of the rods *d*. These slats run transversely in the bedstead, and below them there is a floor or bottom, B, which supports the bars and rope intervening between the sections. Above the rope and bars, between the sections, a thin board or pasteboard covering, *i*, is placed for excluding dust and dirt. Upon the sections A a frame, C, composed of longitudinal bars *k* and transverse bars *l*, is placed. Pins *m* project downward from the longitudinal bars *k* on each side of the bars *b*, for supporting and steadying the sections A.

The mattress is supported by the frame C and the bars *b*. One end of each rope is attached to a short section of chain, *a'*, that ex-

tends through the head of the bedstead, and is attached to an iron bar, D, on the outside. The other ends of the ropes are attached to a single rope, *n*, that may be attached to any fixed object below when the escape is in use, and is supported on a hook, *o*, at the foot of the bedstead when not in use.

In Figs. 3 and 4 a modified form of bar for supporting the sections is shown. It consists of a bar, *p*, having formed upon it bosses or projections for supporting the spring-sections. These bars are arranged longitudinally in the bedstead, and the ropes that pass through the sections lie outside the said bars.

When it is desired to use the fire-escape the frame C is removed and the end that is attached to the hook *o* is removed and carried to the window and thrown out.

The sections A come out of the bedstead readily, and when the whole is out of the window descent may be readily made, as it forms a strong and complete ladder.

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

1. A bed-bottom composed of spring-sections and intermediate bars attached to ropes, substantially as and for the purpose herein shown and described.

2. The sections A, consisting of the bars *b c*, rods *d*, and springs *e*, substantially as shown and described.

3. The combination of the spring-sections A and ropes *f* with a bedstead having transverse slats *h*, substantially as shown and described.

4. The frame C, composed of slats or bars *k l*, and provided with pins *m*, in combination with the sections A, substantially as shown and described.

5. The bar D and chain *a'*, in combination with the bedstead for receiving the end of the ropes *f*, substantially as specified.

JOSEPH KELLNER.

Witnesses:

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