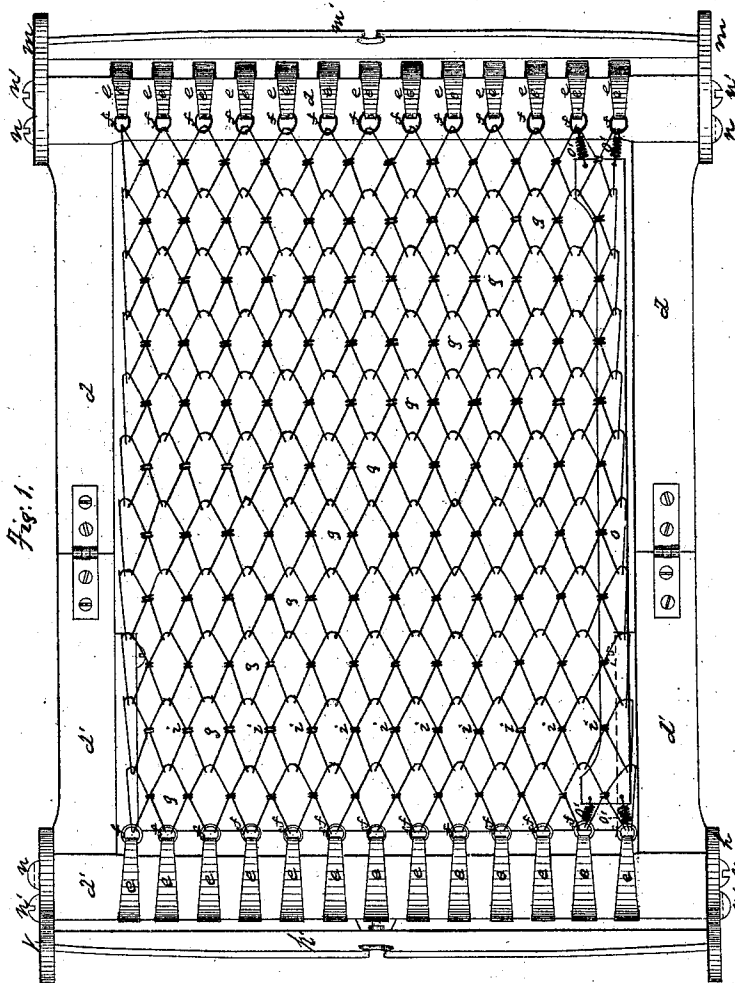


W. Z. COOKE.

Spring Beds and Frames.

No. 135,892.

Patented Feb. 18, 1873.



Witnesses.

E. A. Hunkel
Wm. M. Hudson

Inventor.

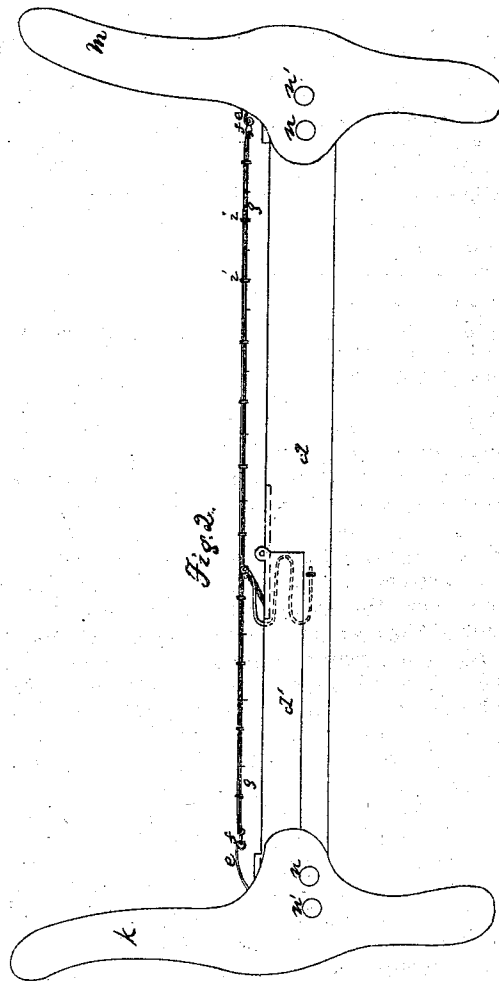
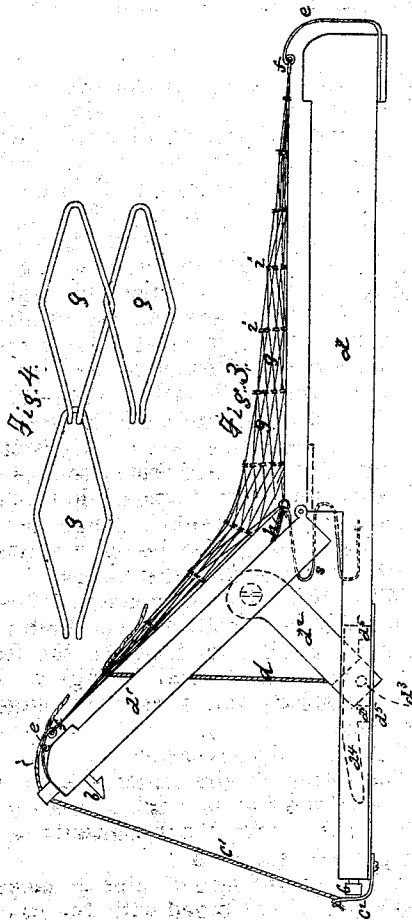
W. Z. Cooke
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UNITED STATES PATENT OFFICE.

WILLIAM Z. COOKE, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN SPRING BEDS AND FRAMES.

Specification forming part of Letters Patent No. 135,892, dated February 18, 1873.

To all whom it may concern:

Be it known that I, WILLIAM Z. COOKE, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Spring-Beds and Frames therefor, of which the following is a specification, reference being had to the accompanying drawing, in which—

Figure 1 is a plan or top view of the bed and frame. Fig. 2 is a side elevation of the same in the same position of adjustment as in Fig. 1. Fig. 3 is a side view of the bed, legs omitted, in a different adjustment, the head being raised somewhat. Fig. 4 shows an alternative method of fastening together the diamond-shaped figures of which the wire-mattress is composed.

The letter *a* indicates the frame, in which a wire-mattress is suspended—a rectangular frame, with the sides and ends fastened together at the corners. To the frame *a* is hinged the adjusting-frame *a'*, by means of which the head of the bed can be raised or lowered, within obvious and proper limits, as desired. The adjusting-frame may be fastened down by means of the hook *b*, which will take into the spring-catch *c* when the adjusting-frame is pushed down flat upon the frame. The hook *b* may be released from the hook *c* by a pull upon the cord *c'*, which pulls the spring *c''* inward, and thus presses the hook inward. To the under side of the adjusting-frame *a'* the pawl-frame *a''* is hinged, from the sides of which project pins *a'''*, which play in the racks *a''''*, which are on the inside of the frame *a*; and these pins *a'''* may be made to catch and rest in the notches *a''''''*, thus supporting the adjusting-frame at the point desired. A pull upon the cord *d* will raise the pins out of the notches, and thus allow the adjusting-frame to fall. To the foot of the frame *a* are attached the *C*-springs *e*, and to the head of the adjusting-frame are fastened similar springs. These, obviously, might as well be fastened directly to the frame *a* if an adjusting-frame is not made use of. To these springs the wire-mattress is attached by means of the rings *f*. This mattress is composed of diamond-shaped figures of wire *g*, one end of which is closed

and continuous, and at the other end the ends of the wire are hooked and take into the figure just ahead. The side connections between the diamonds are composed of wire rings *i*. In place of this they may be connected as shown in Fig. 4. The mattress is connected to the frame *a*, at or near the point where the adjusting-frame is hinged, by the *S*-springs *s* and the spring-connection *h*, which aid in giving tension to the mattress when the adjusting-frame is raised. The legs *k k* and the head-board *k'* compose the head-frame of the bed; the legs *m m* and the foot-board *m'* compose the foot-frame. The legs are fastened to the frame *a* by two or more screws, *n n'*. On withdrawing all but *n* the head and foot frames can be folded down upon the frame *a*, thus putting the whole into a convenient shape for packing. In order to effect this the screw *n* must be put a little distance from the corner.

When the adjusting-frame is not used I put just under the mattress, upon both sides, the supporting-rail *o*, fastened to the frame *a* at the ends by the spiral springs *o' o'*, which serve to steady and support the edges of the mattress.

I claim as my invention—

The spring or wire mattress *g*, in combination with the frames *a* and *a'*, hook *b*, catch *c*, and cords *c'* and *d*, substantially as and for the purpose set forth.

2. The pawl frame *a''*, pins *a'''*, racks *a''''*, and notches *a''''''*, combined with the frame *a* and mattress, substantially as and for the purpose herein specified.

3. The frames *a a'*, combined with a spring-mattress and rack, so that the spring-mattress will automatically be raised to an inclined position, substantially as and for the purpose described.

4. The figures *g* hooked together, as described, the springs *e*, and frames *a a'*, all constructed and arranged for operation, as and for the purpose herein specified.

WILLIAM Z. COOKE.

Witnesses:

WM. E. SIMONDS,
GEORGE G. SILL.