

GEORGE WILSON.

Improvement in Spring Bed Bottoms.

No. 119,487.

Patented Oct. 3, 1871.

Fig. 1

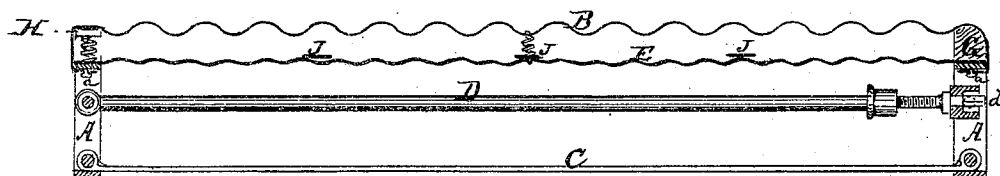


Fig. 2

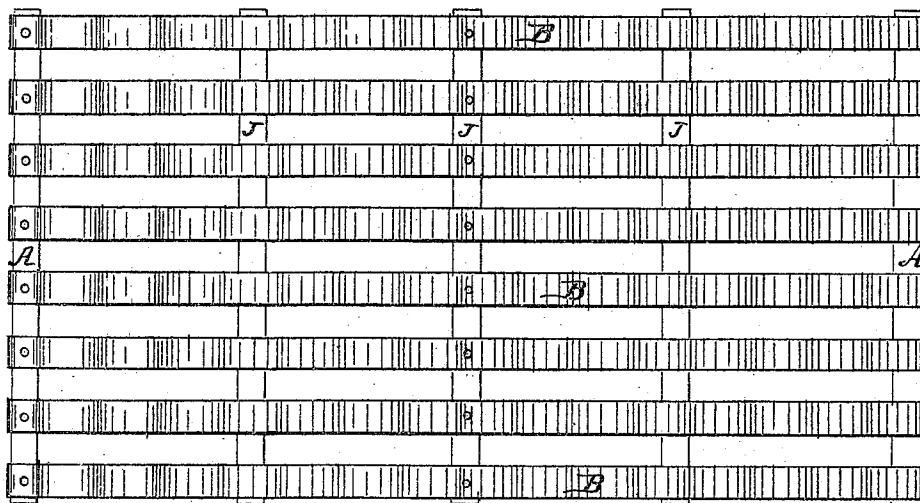
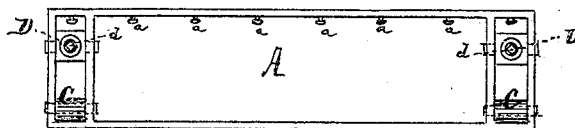


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE WILSON, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. 119,487, dated October 3, 1871.

To all whom it may concern:

Be it known that I, GEORGE WILSON, of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Spring-Beds; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which, together with the letters and figures of reference marked thereon, form part of this specification, in which—

Figure 1 is a vertical section on the line *xx* of Fig. 2. Fig. 2 is a top or plan view of a bed-bottom made to embody my invention; and Fig. 3 is an end view of the frame, the springs being removed.

Like letters of reference made use of in the several figures indicate like parts.

This invention relates to a novel spring bed-bottom in which the springs consist of a series of longitudinal strips of corrugated steel or other metal secured to a frame-work, with proper appliances to tighten or loosen the springs, as will presently be more fully explained.

To enable those skilled in the art to make and use my invention, I will proceed to describe the same with particularity, making use, in so doing, of the aforesaid drawing.

In the drawing, A designates the end frames of the frame-work, made commonly of wrought or malleable cast-iron. The under surface of the upper bars of these frames is provided with studs or buttons *a* for securing thereto the corrugated springs. B are the corrugated springs, consisting of narrow strips of thin metal, crimped or corrugated transversely, as is shown in the drawing. These springs are provided with an aperture at each end to attach them to the frame-work. C C are tie pieces of metal connecting the end frames. These tie pieces are hinged to the end frames in such a manner that said frames may swing outward at the top for the purpose of

tightening the springs. D are hollow rods or tubes (ordinary gas-pipe is usually employed) extending from one end frame to the other and furnished at one end with a screw or key-headed bolt, *d*, playing into a nut or internal screw-thread upon or within the tube, whereby the upper side of the end frames may be brought nearer together or forced further apart, furnishing a means of stretching or tightening the springs. Below each of the springs B is a second strap, E, corrugated or not, of metal or leather or any other suitable material, secured to the end frame by the same contrivance as the springs, and serving as a stop or preventer to keep the springs from sagging or giving away under undue pressure. At each end is a contrivance for raising the spring to a sufficient height above the straps E. This may consist simply of a wooden bar, G, laid over the upper bar of the end frame upon the ends of the straps, or it may consist of a strip, H, supported from the same points by means of spiral springs. To distribute the pressure upon the straps I lay a series of transverse slats, J, across them, and spiral springs, if thought desirable, may rest upon these slats and bear upon the corrugated strips above.

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

1. The bed-bottom, substantially as herein described, consisting of the corrugated metal spring strips B attached to a frame-work.
2. The combination of the expansible frame-work, consisting of the end frames A, tie pieces C, rods D, screws *d* with the corrugated metal spring-strips B, substantially as specified.
3. The combination of the corrugated spring-strips B, frame-work A C D *d*, or its equivalent, and the straps E, substantially as specified.

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Witnesses:

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