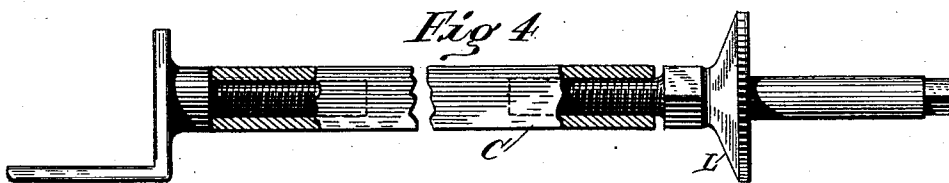
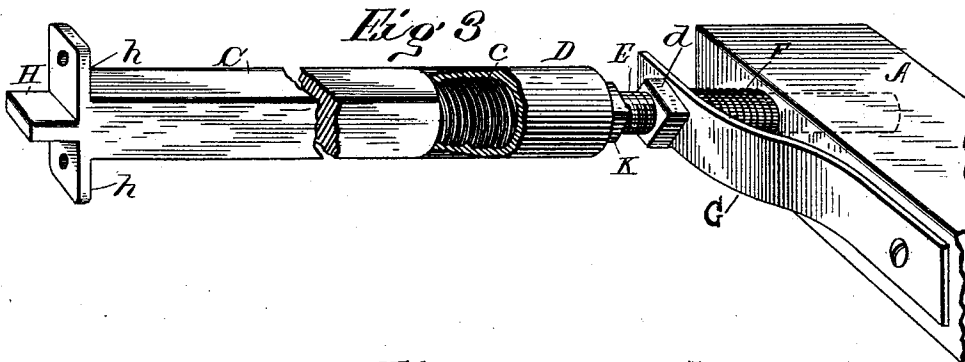
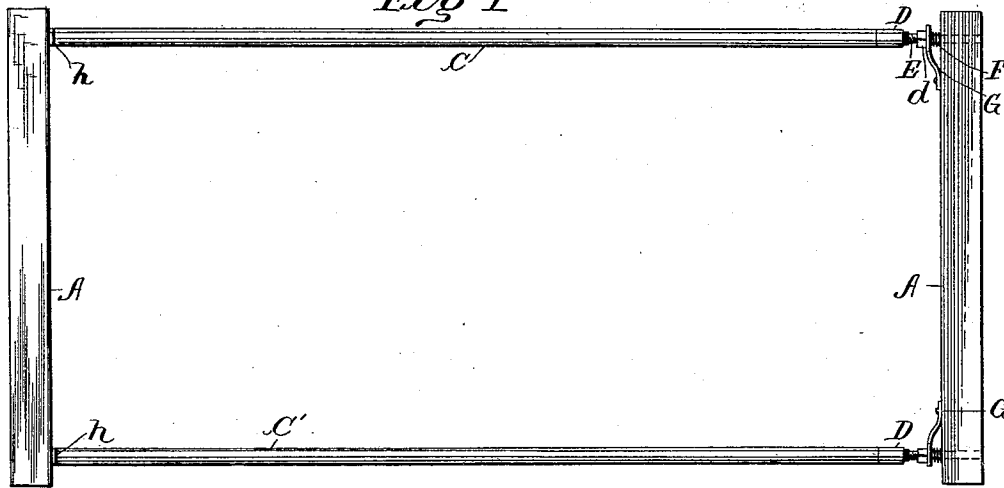


(No Model.)

G. WITTER.
WIRE BED BOTTOM.

No. 484,484.

Patented Oct. 18, 1892.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE WITTER, OF STORM LAKE, IOWA.

WIRE BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 484,484, dated October 18, 1892.

Application filed July 16, 1892. Serial No. 440,290. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WITTER, a citizen of the United States, residing at Storm Lake, in the county of Buena Vista and State of Iowa, have invented certain new and useful Improvements in Wire Bed-Bottoms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improvement in wire bed-bottoms; and it consists in the construction and arrangement of parts hereinafter described, and definitely pointed out in the claims.

The aim and purpose of this invention is the provision of improved means for taking up the slack in the wire mattress, which will be simple in construction, easily manipulated, and positive in its action. This object is attained by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate corresponding parts in the several views, and in which—

Figure 1 is a plan view of a bed-bottom frame embodying my invention. Fig. 2 is a side elevation of a bed-bottom. Fig. 3 is a detail view of the stretcher showing parts of the frame, and Fig. 4 is a detail view of a modified form.

In the drawings, A represents the end bars of the bed-bottom, and B an endless belt of woven spring-wire fabric or of any other suitable material, and any and all of which may be of any desired form.

C C' are the side bars, preferably metallic rods, arranged on opposite sides of the bed-bottom, having at one end male screw-threads c, which engage in suitable female threaded sockets D, formed on the ends of threaded rods E. These rods E are of a length sufficient to pass through apertures formed in the end bars A and to permit an easy smooth movement therein, the ends are made even or plain, the threaded portion commencing back from the end near the sockets. On this threaded portion is placed an adjusting-nut d, and between the nut and end bar is a spiral spring F, sleeved on the rod E. The tendency of the spring being to force the side bar and end bar apart and forms a yielding cushion for the side bar.

To hold the side and end bars in true alignment and to prevent a lateral movement of the side bars, it being understood that the ends of the rods E fit loosely in the apertures in the end bars, braces G are secured to the end bars at points back from the ends thereof. These braces are formed of spring metal and are curved outward, their outer ends being perforated to allow the rod E to pass there-through. The spring F is placed between the brace and end bar and the nut is placed between the brace and end of the socket. The opposite ends of the side bars are formed with a tenon H, which fits in a mortise in the end bar at the opposite end of the frame, and the side bars at this point are provided with ears h on opposite sides, through which suitable screws pass to unite the same rigidly to the end bar and securely hold the side and this end bar in place. The socket D has formed at its end between the same and screw-threaded portion of the rod E a squared section K, to which a suitable wrench may be applied when the side bars are to be lengthened or shortened, which is accomplished by turning the socket, the intermeshing threads of the side bar and socket serving to move the parts relative to each other.

The construction above described may be changed or varied, if desired, especially in the manner shown in Fig. 4, wherein the socket is formed on the side bar and the male threads are formed on the rod E. In this case it will be necessary or desirable to form a flange, as at L, against which the end bar may engage. Again, in this modified form a metallic angle-iron M may be employed which fits over two sides of the end bar and is fastened thereon. The iron having a screw-threaded shank engaging in a threaded tubular extension on the end of the side bar.

In tightening the mattress it is only necessary to force the nuts d down onto the yielding braces and springs, thereby forcing the end bars apart, while at the same time the yielding nature of the interposed springs prevent any injury to the parts and constitutes a flexible or spring frame for the mattress.

It is evident that many minor changes in the construction and arrangement of the parts of this device can be made and substituted for those herein shown and described without

in the least departing from the nature and principle of the invention.

Having thus described the invention, what is claimed as new, and on which Letters Patent are desired to be secured, is—

5 1. In a spring-wire bed-bottom, the combination, with the end bars, of side bars having threaded rods on their ends passing into apertures formed in the end bars, nuts on the
10 rods, and springs sleeved on the rods between the nuts and end bars, substantially as described.

2. In a wire bed-bottom, the combination, with the end bars, of side bars formed of two
15 sections, one of which has a threaded socket thereon engaging the other section, a rod on one section loosely fitting in a bearing on the end bar, and a spring sleeved on the rod between the end bar and socket, substantially
20 as described.

3. In a wire bed-bottom, the combination,

with the end bars, of side bars formed with threaded rods on their ends seated in the end bars, nuts on the rods, springs sleeved on the rods between the nuts and end bars, and curved
25 yielding braces on the end bars through which the rods pass, substantially as described.

4. In a wire bed-bottom, the combination, with the end bars, of side bars formed of two
30 sections having engaging screw-threaded extensions on one section engaging an end bar, springs on the extensions, nuts on the extensions, and braces on the end bar extending in between the nuts and springs, substantially
35 as described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE WITTER.

Witnesses:

O. V. RICE,

GEO. W. WEDGWOOD.