(No Model.)

H. MYERS.

SPRING BED BOTTOM.

No. 384,925. Patented June 19, 1888.

Fig. 1.

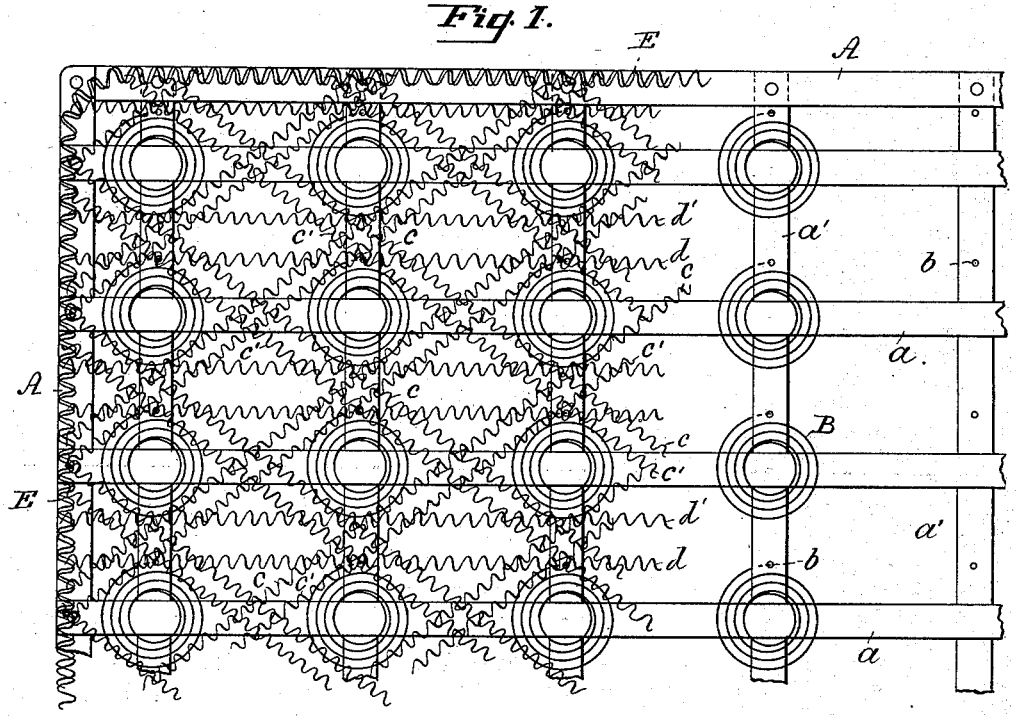
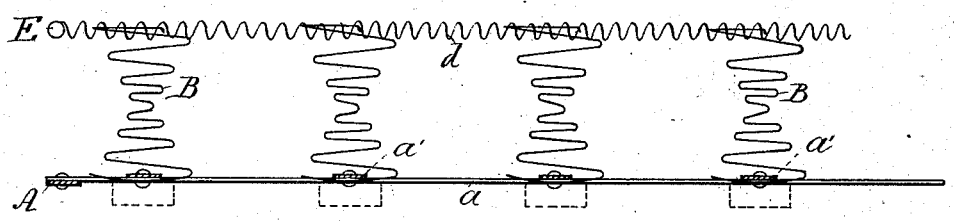


Fig. 2.



WITNESSES:
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UNITED STATES PATENT OFFICE.

HENRY MYERS, OF PHILADELPHIA, PENNSYLVANIA.

SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 384,925, dated June 19, 1888.

Application filed December 17, 1887. Serial No. 258,154. (No model.)

To all whom it may concern:

Be it known that I, HENRY MYERS, a subject of the Emperor of Germany, but now residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Spring Bed-Bottoms, of which improvements the following is a specification.

My invention relates to a bed-bottom having a metallic slatted bottom frame, on which are mounted upright helical or spiral springs in parallel rows at suitable distances apart, and with spiral wires arranged diagonally in opposite directions and longitudinally between the rows of upright springs, and so united therewith and with a wire border as to produce an elastic bearing-surface, the principal object of my invention being to provide a more uniform surface in such type of bed-bottoms and to more perfectly equalize the strain on the several upright helical or spiral springs, thus rendering the same much more serviceable, comfortable, and durable, and, moreover, enabling the same to be readily handled without in the least affecting the shape or form thereof.

My invention consists in the peculiar arrangement and combination of the several parts, to be hereinafter more fully described.

In the accompanying drawings I have illustrated my invention in a form found practically efficient, and in which—

Figure 1 is a plan view of my improved spring bed-bottom, showing also the upper portion thereof partly broken away; and Fig. 2 is a longitudinal section of the same, showing also an end view of a series of rectangular-shaped bed-slats for supporting the bottom in position.

Referring to the drawings for a further description of my invention, A is a metallic frame, made of iron, steel, or other suitable metal, and to which is secured a series of longitudinal slats arranged parallel to each other, and at right angles to these slats is arranged, parallel to each other, a series of transverse slats, *a'*, which are secured, respectively, to said longitudinal slats *a* and frame A. At the points where the transverse and longitudinal slats cross each other at right angles are mounted upright helical or spiral springs B, the spirals of which enlarge in opposite directions from their centers, and these springs B are held in proper position vertically in eyes *b*, formed in either the longitudinal or transverse slats *a* or *a'*, to receive their lower free extremities.

Single or double wires *c* and *c'*, in spiral or other suitable form, are arranged in parallel diagonal courses running in opposite directions from one side to the other of the bottom, and these wires *c* and *c'* are intertwined with the top spirals of the respective upright helical springs B, forming, as illustrated in Fig. 1, a series of diamond-shaped figures. Running parallel with the upright springs B, and between them longitudinally, is a series of coiled or spiral wires, *d* and *d'*, which are intertwined also with the top spirals of said springs, and the wires *c* and *c'*, running diagonally in opposite directions.

Around the outer extremities of the upper portion of the bottom is arranged a border, E, composed of one or more coiled or spiral wires intertwisted together, and to which the extremities or ends of the spiral or coiled wires *c* and *c'*, running diagonally in opposite directions, as well as the parallel ones *d* and *d'*, running longitudinally, are suitably attached, as clearly shown, for instance, in Fig. 1, by which arrangement a uniform bearing-surface and an equalized springing action of the bottom is insured with absolute certainty and undue strain on the upright springs, which might at any time be brought to bear upon the same, fully compensated for, and a very strong, serviceable, cheap, and comfortable bottom obtained, and such a one as may be easily handled without affecting its shape or form.

I am aware that a bed-bottom has been constructed with an upper and under metallic frame with interposed spiral or helical springs, as shown and described in the Letters Patent No. 203,023, of April 30, 1878. I am also aware that a bed-bottom has been constructed solely of a series of spiral springs tapering in opposite directions from their centers with continuous coiled wires connecting the outer spirals of said springs in longitudinal and transverse directions on the upper and lower faces thereof, as shown and described in the Letters Patent No. 303,393, of August 12, 1884. I am also aware that a spiral-wire band has been looped into the rings of the outer series of conical springs, for the purposes of aiding and maintaining an upright position of the springs and

as serving to support the outer edges of the bed or mattress, as shown and described in the Letters Patent No. 263,888, of September 5, 1882, and therefore I do not claim, broadly, such constructions of spring bed-bottoms; but,

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of a spring bed-bottom consisting of a slatted metal bottom frame, helical or spiral springs mounted on said frame at points where the slats thereof cross each other, and the lower extremities of said springs being held to place thereat in eyes formed in said slats, wires arranged in parallel courses and interlaced with each other and said springs, and with a border composed of coiled or spiral wires intertwisted together, thereby forming a solid elastic web-like form of top, in which all strain brought to bear thereon may be uniformly equalized throughout, as shown and described.

In witness that I claim the foregoing as my invention I have hereunto set my hand in the presence of two subscribing witnesses.

HENRY MYERS.

Witnesses:
GEO. W. REED,
THOMAS M. SMITH.