W. H. LEININGER.

Bed-Bottom.

No. 212,954. Patented Mar. 4, 1879.

Fig. 1.

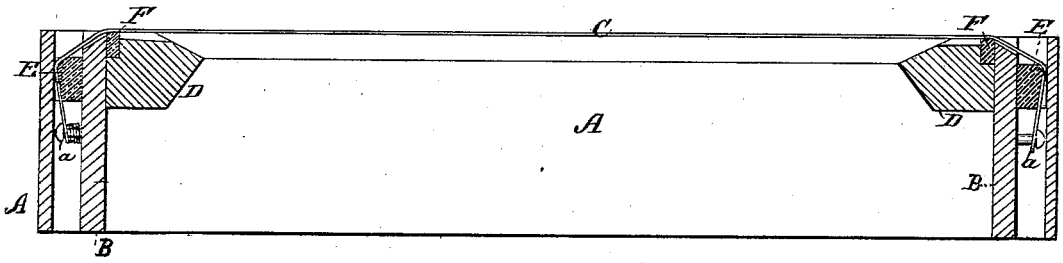


Fig. 2.

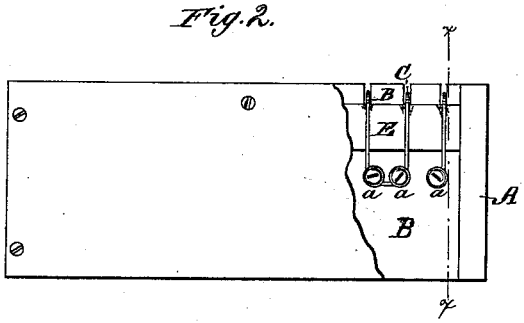
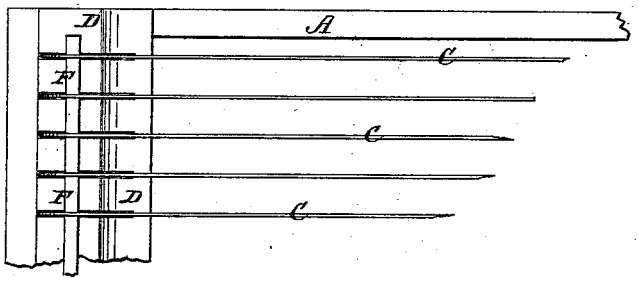


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE

WILLIAM H. LEININGER, OF SALEM, OREGON.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **212,954**, dated March 4, 1879; application filed August 29, 1878.

To all whom it may concern:

Be it known that I, WILLIAM H. LEININGER, of Salem, in the county of Marion and State of Oregon, have invented a new and Improved Spring Bed-Bottom; and I do hereby declare that the following is a full, clear, and exact description of the same.

The object of my invention is to effect an improvement in the class of wire bed-bottoms, more particularly those in which the mattress-supporting wires, stretched from end to end of the bed-frame, are attached to springs.

My improvement consists in forming the bed-bottom proper of lengths of wire or wires, which pass around pins set in the ends of the bed-frame, and which are stretched over rubber strips in proximity to the rows of pins, for the purpose of giving great elasticity to the wires and preventing sharp bends in the same, and also preventing contact with the angles of the end pieces of the bed-frame where the wires pass over the latter.

In the accompanying drawings, Figure 1 is a longitudinal vertical section of my improved bed-bottom on line *x x* of Fig. 2. Fig. 2 is an end elevation, with part in section. Fig. 3 is a plan view of a portion of the bed-bottom.

The rectangular frame A of the bed-bottom has a horizontal row of pins or pegs, *a*, set in the outer side of each transverse end bar, B. To these pins the wire or wires C, which compose the support for the mattress, are attached, as hereinafter described.

A series of parallel kerfs are sawed transversely in the upper side and outer corner of the bars D, which form the heads proper of the frame A, and to the outer side of each transverse bar B is attached a thick rubber strip or slab, E, the same being arranged parallel to and near the upper side of the head. Another rubber strip or slab, F, is placed in a recess formed in the upper side of the heads D, parallel to and near the outer edge thereof. The wires C are stretched tightly over said rubber strips E and F, and arranged in the kerfs of heads D, as shown.

The elasticity of the wires individually, and hence of the mattress-support as a whole, depends, mainly, upon the yielding tension imparted by the end strips, E, and the latter likewise serves to prevent contact of the wir with the corners of the head-pieces D, so th the wires are not bent at a sharp angle, a are, therefore, not liable to be broken at tho points.

The upper elastic strip, F, supplements t function of the end strips, E, so far as relat to forming an elastic support for the wires

I prefer to form the mattress-support of o continuous length of wire, the ends of t same being attached to diagonally oppos pegs, and the intermediate portion passi around a pair of pegs at each end of the fra alternately, as shown in Fig. 2.

By applying the wire in a continuous pie the labor and cost of manufacturing the be bottom are reduced, and its elasticity is a promoted, since the tension of each individu length or strand of wire is made to depe more or less upon the elasticity of the co tiguous lengths or strands.

I am aware that an elastic strip has be applied to the seat-frame of a cane-bottom chair for the purpose of preventing the strai of the cane from being broken by downwa pressure against the inner edge of the fram but my invention embodies a different princi of construction, and aims at and attains a d ferent or new result.

What I claim is—

1. As the improvement in bed-bottoms he in described, the combination, with the re angular frame A, having slotted heads D and the wires C, of the elastic strips F, pla in a recess in the upper side of the said hea and the transverse bar B, pins *a*, and ela strips E, all as shown and described, for purpose specified.

2. The combination, with frame A, hav transverse bar B, pins *a*, set in the outer si thereof, the heads D D, and elastic strips and F, of the wire C, made in one continu length, having its ends attached to diagon opposite pins, and the intermediate port looped over pairs of pins, as shown and scribed.

WILLIAM H. LEININGEI

Witnesses:

JAMES WALTON,

SETH R. HAMMER.