

J. V. MESTAS.
METALLIC MATTRESS.
APPLICATION FILED JUNE 23, 1911.

1,019,510.

Patented Mar. 5, 1912.

Fig. 1

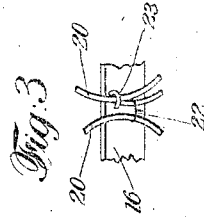
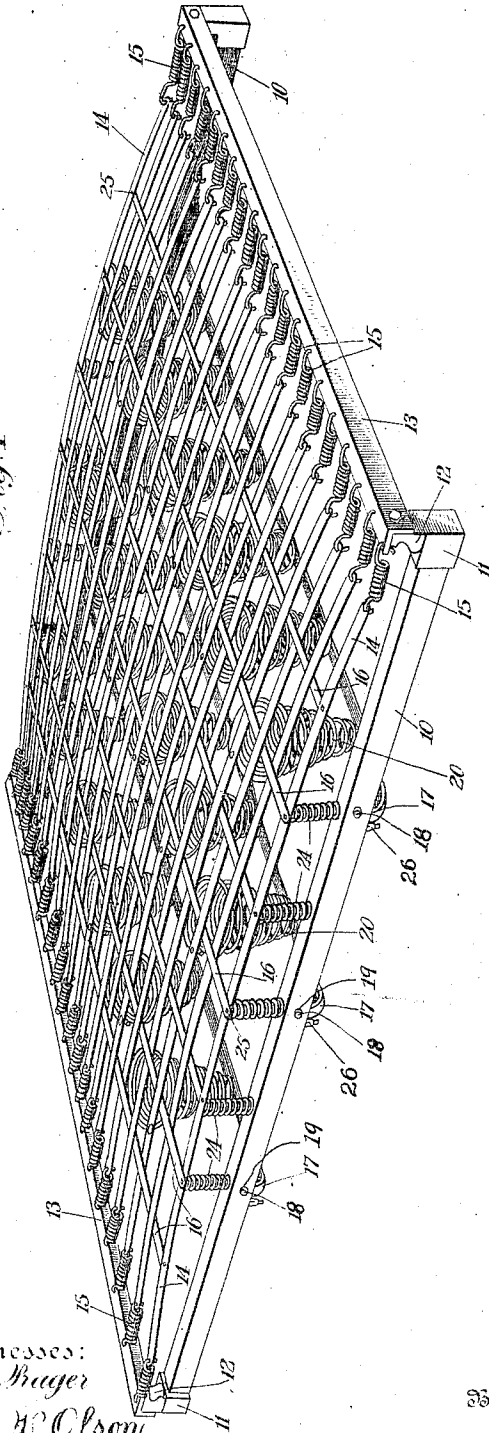
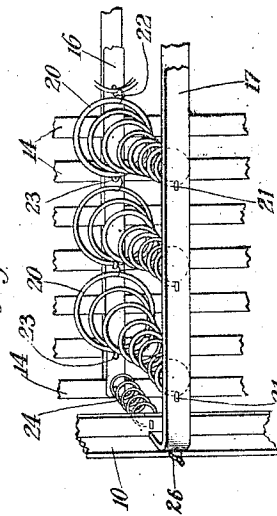


Fig. 2



Witnesses:
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UNITED STATES PATENT OFFICE.

JOSÉ VALLE MESTAS, OF MEXICO, MEXICO.

METALLIC MATTRESS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSÉ VALLE MESTAS, a subject of King of Spain, and a resident of Mexico city, Federal District, Mexico, have invented certain new and useful Improvements in Metallic Mattresses, of which the following is a specification.

The invention relates to mattresses and more particularly to metallic, spring mattresses.

It has for its object to provide a mattress in which the top of the same shall be of interwoven straps flexibly secured to a rigid supporting frame; and to so secure these straps to a plurality of the flexible means that the latter will be held firmly in place and that a uniform movement of said means will be obtained.

In the accompanying drawings which illustrate the invention—Figure 1 is a perspective view illustrating a mattress embodying my improvements. Fig. 2 is a fragmentary detail view, in perspective, illustrating the manner of securing the springs to the upper and lower straps or bars. Fig. 3 is a fragmentary detail perspective showing the manner of tying or securing the conical springs to each other and to the upper straps.

Similar characters of reference designate corresponding parts throughout the several views.

Referring now to the drawings, it will be noted that the improved mattress includes a rigid supporting frame built up of lateral angle pieces 10 which terminate in end blocks or corners 11 having raised portions 12 integral therewith. To these raised portions are secured the end or head members 13, of angle pieces, the whole constituting a rigid supporting frame.

Extending along the entire length of the supporting frame, at suitable intervals, are a number of straps 14 secured to the end members 13 by means of suitable springs 15; and interwoven with these straps are transverse upper straps 16. These interwoven straps 14 and 16 form the top of the mattress. At the under side of the stationary frame are transverse lower straps or beams 17 suitably secured to the corresponding angle pieces 10. These straps may be secured to the angle pieces 10 by means of projections 18 extending outwardly from the same and passing through perforations 19 provided therefor in the angle pieces 10.

Straps 17 extend preferably below the angle pieces 10; and between the same and the upper straps 16 are located suitable conical springs 20. These springs are attached at the top and bottom to the respective straps in any suitable manner, but I prefer to secure them in the manner illustrated, viz:—to the lower strap 17 by means of end hooked portions 21 extending through corresponding perforations provided therefor in the said lower strap, the said ends being bent parallel to the under face of the strap to prevent the withdrawal of the spring. The connection to the upper straps is effected similarly but the adjacent springs are connected with one another so that uniform movement of the whole is obtained. For this purpose suitable ties 22 are employed, the same securing the adjacent springs to one another, and the ends 23 of the springs passing through corresponding perforations provided therefor in the said upper straps and then turned back or twisted. Cylindrical springs 24 are also provided, and support the straps 16, being secured at their lower end to the angle pieces 10 in a manner similar to that by which the springs 20 are secured to their straps. At their top they are secured by means of a bolt and nut 25 passing through the junction of the straps 14 and 16 which serves to secure also the said straps to each other. The interwoven straps are thus flexibly supported by the rigid frame through the cylindrical springs 24, as well as through conical springs 20 and the straps 16. In securing the adjacent conical springs to one another, a more uniform movement of the mattress as a whole is obtained. Suitable stops 26 extend downwardly from the angle pieces 10 to limit the lateral movement of the mattress.

I claim:—

1. A metallic spring mattress comprising: a rigid frame; longitudinal and transverse interwoven upper straps; springs securing said longitudinal straps to the ends of said frame; cylindrical springs held between the sides of said frame and the interwoven straps to support the latter; lower transverse straps; and conical springs held between said upper and lower straps.

2. A metallic spring mattress comprising: side pieces and riser at the end of each piece, and end pieces secured to said riser to provide a rigid frame; longitudinal and trans-

verse interwoven straps; springs securing
 said longitudinal straps to said end pieces;
 cylindrical springs resting on said longitu-
 dinal side pieces and having their lower ends
 5 passing through suitable perforations pro-
 vided therein and turned over to secure the
 said springs to the said pieces; means adapt-
 ed to secure the end longitudinal straps and
 said transverse straps to each other and to
 10 the upper end of said cylindrical springs;
 lower straps secured to the side pieces; and
 conical springs between said upper and
 lower transverse straps, the ends of said
 15 conical springs passing through perfora-
 tions provided therefor in the said upper
 and lower straps and turned back to secure
 said springs to the said upper and lower
 straps.

3. A metallic spring mattress comprising:
 20 two side pieces and a riser at the end of each
 piece, and end pieces secured to said risers
 to provide a rigid frame; longitudinal and
 transverse interwoven upper straps; springs
 securing said longitudinal straps to said end

pieces; cylindrical springs resting on said 25
 longitudinal side pieces and having their
 lower ends passing through suitable per-
 forations provided therein and turned over
 to secure the said springs to the said pieces;
 means adapted to secure the end longitudi- 30
 nal straps and said transverse straps to each
 other and to the upper end of said cylindri-
 cal springs; lower transverse straps secured
 to the side pieces; conical springs between
 said upper and lower transverse straps, the 35
 ends of said springs passing through perfora-
 tions provided therefor in the said upper
 and lower straps and turned back to secure
 said conical springs to the said upper and
 40 lower straps; and means to tie the upper
 ends of adjacent conical springs to one an-
 other.

Signed at Mexico city this 10th day of
 June A. D. 1911.

JOSÉ VALLE MESTAS.

Witnesses:

RODOLFO J. LULERS,
 GERMAN PAHLHAUS.