P. M. BARBER.

BED SPRING.

APPLICATION FILED APR. 13, 1910.

991,930.

Patented May 9, 1911.

2 SHEETS—SHEET 1.

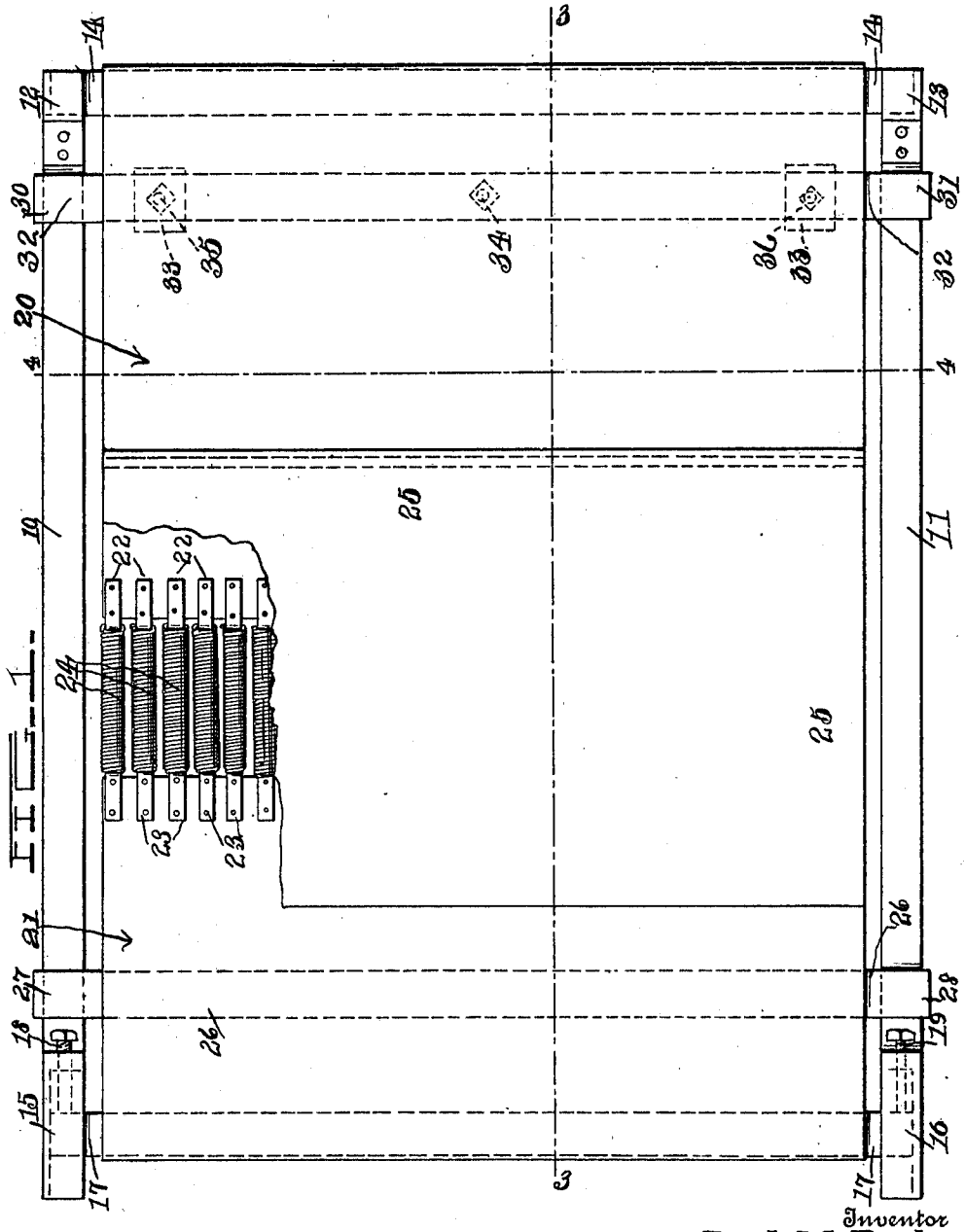

FIG. 1.

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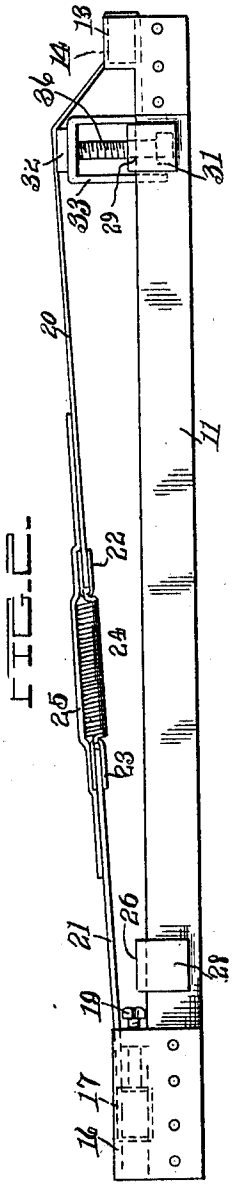

FIG. 2.

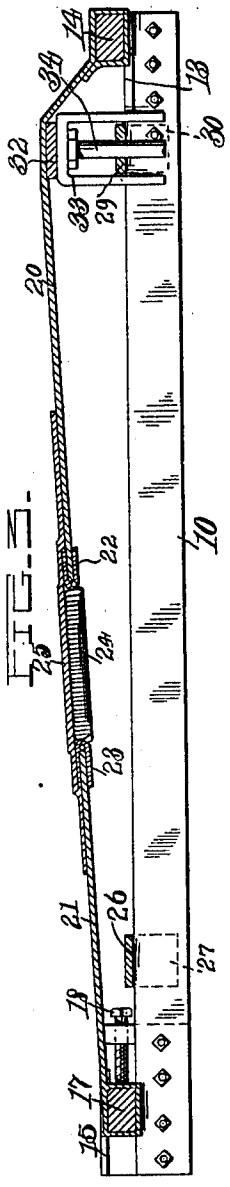

FIG. 3.

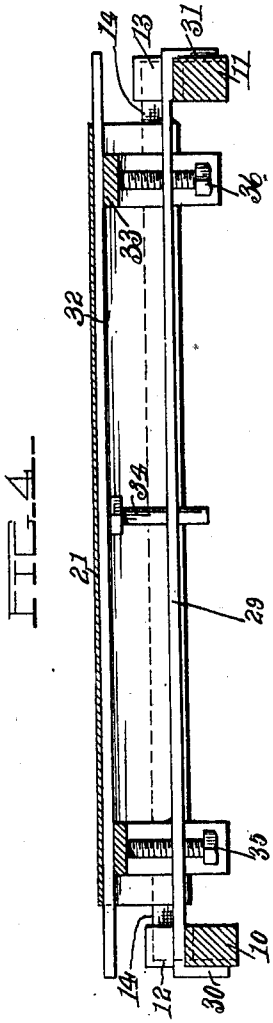

FIG. 4.

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UNITED STATES PATENT OFFICE.

PAUL M. BARBER, OF ABERDEEN, SOUTH DAKOTA.

BED-SPRING.

991,930. Specification of Letters Patent. Patented May 9, 1911.

Application filed April 13, 1910. Serial No. 555,157.

To all whom it may concern:

Be it known that I, PAUL M. BARBER, a citizen of the United States, residing at Aberdeen, in the county of Brown, State of South Dakota, have invented certain new and useful Improvements in Bed-Springs; 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 improvements in bed springs, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

Another object of the invention is to provide an improved bed spring formed of webbing combined with springs and adjustably coupled to a frame whereby the tension of the webbing and springs may be controlled.

Another object of the invention is to provide a device of this character having means for adjusting the inclination of the bearing surface of the bed.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims; and, in the drawings illustrative of the preferred embodment of the invention, Figure 1 is a plan view of the improved bed spring, Fig. 2 is a side elevation of the same, Fig. 3 is a longitudinal section on the line 3—3 of Fig. 1, Fig. 4 is a transverse section on the line 4—4 of Fig. 1.

The improved bed spring comprises side rails 10—11 of suitable strength to withstand the strains to which they will be subjected and adapted to be supported upon a bedstead of any suitable form, but as the bedstead forms no part of the present invention it is not illustrated. Connected to the rails 10—11 at one end are socket members 12—13 to receive a transverse head member 14 and support the same.

Connected to the opposite ends of the rails 10—11 are similar socket members 15—16, except that they are longer and support a transverse foot member 17, similar to the member 14 except that it is movable within the socket. Operating in the sockets 15—16 are adjusting screws 18—19 bearing against the member 17 at its ends, and thus providing means for forcibly moving the member 17 away from the member 14. Secured to the head member 14 is a section of suitable webbing 20, preferably of heavy canvas, while a similar section of webbing material 21 is secured to the foot member 17. Secured to the inner end of the webbing member 20 are a plurality of loops 22, while similar loops 23 are connected to the inner end of the webbing section 21. The loops 22—23 provide means for supporting a plurality of coiled springs 24 at their ends, the springs thus extending between the contronting ends of the web sections. Connected to the web section 20 is another section of webbing 25 which forms a cover to the springs 24 and their loops 22—23, so that the mattress will not come in contact with the metal springs. The member 25 thus forms an efficient protection to the mattress, while at the same time not interfering with the operation of the web sections.

The side members 10—11 are supported from outward movement by a clamp bar 26 which lies across the upper faces of the side rails near the housing members 15—16 and is provided with downturned ends 27—28 bearing against the outer faces of the rails, and thus effectually preventing them from spreading, while the foot member 17 effectually prevents them from moving inwardly. Near the head ends of the rails 10—11 another transverse bar 29 is arranged and bearing upon the upper faces of the rails and with downturned ends 30—31 for bearing against the outer faces of the rails. The member 29 thus serves effectually to prevent the spreading of the rails, while the member 14 effectually prevents their movement inwardly. The member 29 also serves as a support for a device for elevating the head end of the web members to any required extent, and this elevating portion of the device consists of a bar 32 extending transversely beneath the web 20 and provided with downwardly directed U-shaped members 33 which bear upon opposite sides of the bar 29 and serve as guides to the member 32. The member 32 is provided centrally thereof with a depending rod 34 which extends through an aperture in the member 29 and thus prevents longitudinal movement of the member 32 relative to the member 29. Operating through the member 29, preferably within the spaced sides of the guides 33, are adjusting screws 35—36 operating to maintain the member 32 spaced above the member 29, and likewise for adjusting the mem-

ber 29 vertically to control the degree of elevation of the webbing. By this means the head end of the webbing may be elevated to any required extent.

It will thus be noted that a simply constructed bed spring is provided which possesses all of the advantages of the ordinary spring mattress, while at the same time being much cheaper, more easily cleansed and retained in sanitary condition, and in which broken or impaired parts may be readily renewed without discarding the remainder of the apparatus. Any required tension may be imparted to the webbing members 20—21 and springs 24 by simply adjusting the screws 18 19, as will be obvious. To dismember the parts it is only necessary to release the screws 18—19 until the member 14 is in position to be released from the brackets 12, when the remaining portion of the device may be readily disconnected.

The improved device is simple in construction, and may be of any required size and of any suitable material, and adapted to bedsteads of varying lengths and widths, and is adapted for use upon the simplest or most expensive bedsteads without material structural changes.

What is claimed is:—

1. In a spring bed, a supporting frame including head and foot members, a webbing section connected to said head member, a webbing section connected to said foot member, springs connecting the confronting ends of said webbing sections, and adjusting means carried by said frame and operating to apply strain vertically to one of said web sections.

2. A spring bed comprising side rails, a transverse head member detachably engaging said side rails at one end thereof, a transverse foot member adjustably engaging said side rails at the other ends thereof, a webbing section connected to said head member, a webbing section connected to said foot member, springs connecting the confronting ends of said webbing sections, and a flexible cover member connected to one of said webbing sections and extending over said springs.

3. In a bed spring, a supporting frame including head and foot members, a webbing section connected to said head member, a webbing section connected to said foot member, springs connecting the confronting ends of said webbing sections, a supporting member carried by said frame beneath one of said webbing sections, a bearing member spaced from said supporting member and bearing beneath the adjacent webbing section, and means for forcibly moving said bearing member toward and away from said supporting member.

4. In a spring bed, a supporting frame including head and foot members, a webbing section connected to said head member, a webbing section connected to said foot member, springs connecting the confronting ends of said webbing sections, and a flexible cover member connected to one of said webbing sections and extending over said springs.

5. In a spring bed, a supporting frame including head and foot members, a webbing section connected to said head member, a webbing section connected to said foot member, springs connecting the confronting ends of said webbing sections, a tie member carried by said frame, a bar extending beneath said webbing, and means operating between said tie member and bar for adjusting the same vertically against the adjacent webbing section.

6. In a spring bed, a supporting frame including head and foot members, a webbing section connected to said head member, a webbing section connected to said foot member, springs connecting the confronting ends of said webbing sections, a tie member carried by said frame, a bar extending beneath said webbing, guide members carried by said bar and engaging the sides of the tie member, and adjusting screws operating between said tie member and bar.

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

PAUL M. BARBER.

Witnesses:
JNO. L. RUCKMAN,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."