

May 9, 1933.

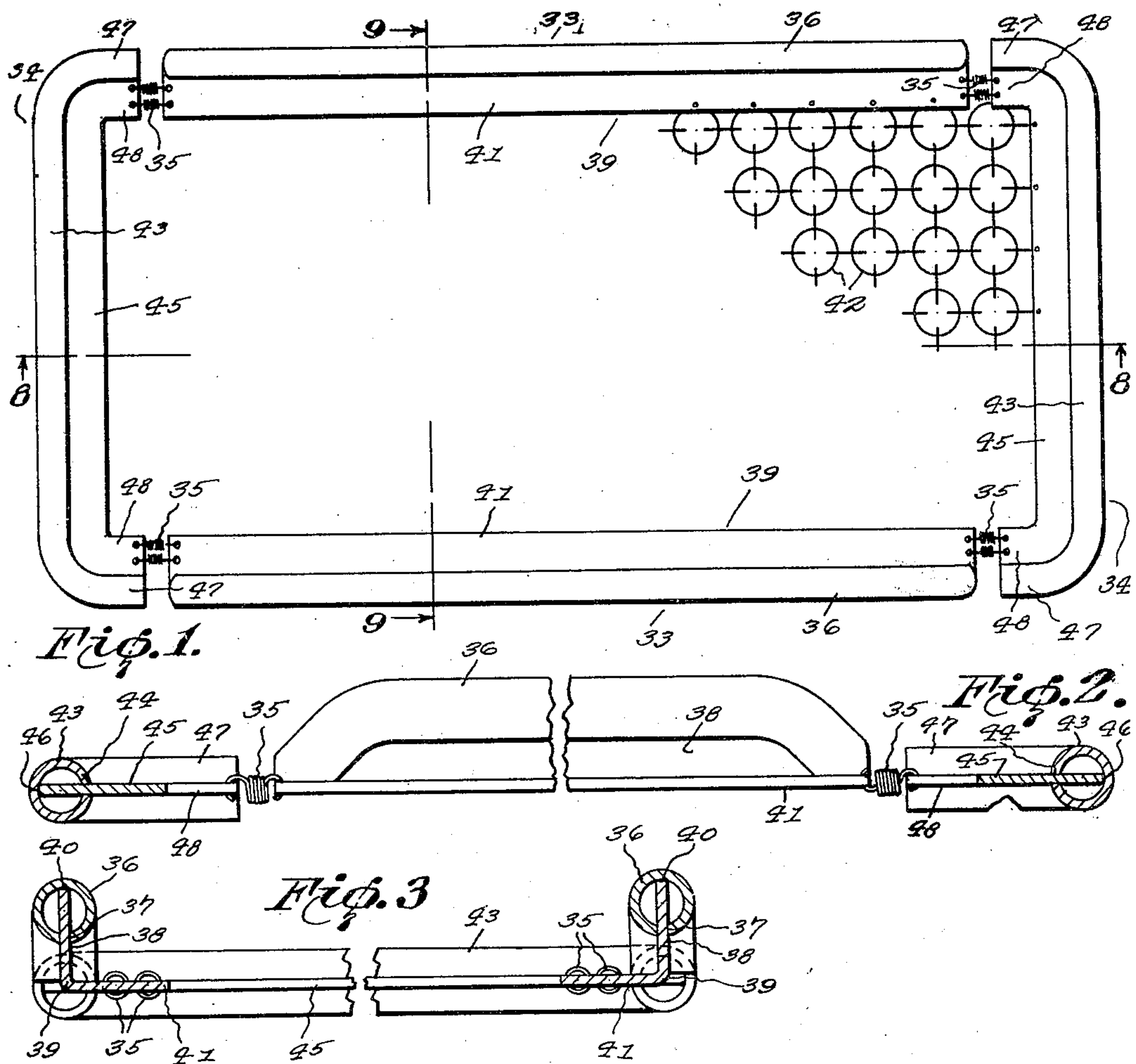
N. GOLDBERG

1,908,665

BEDSPRING

Filed Nov. 12, 1930

2 Sheets-Sheet 1



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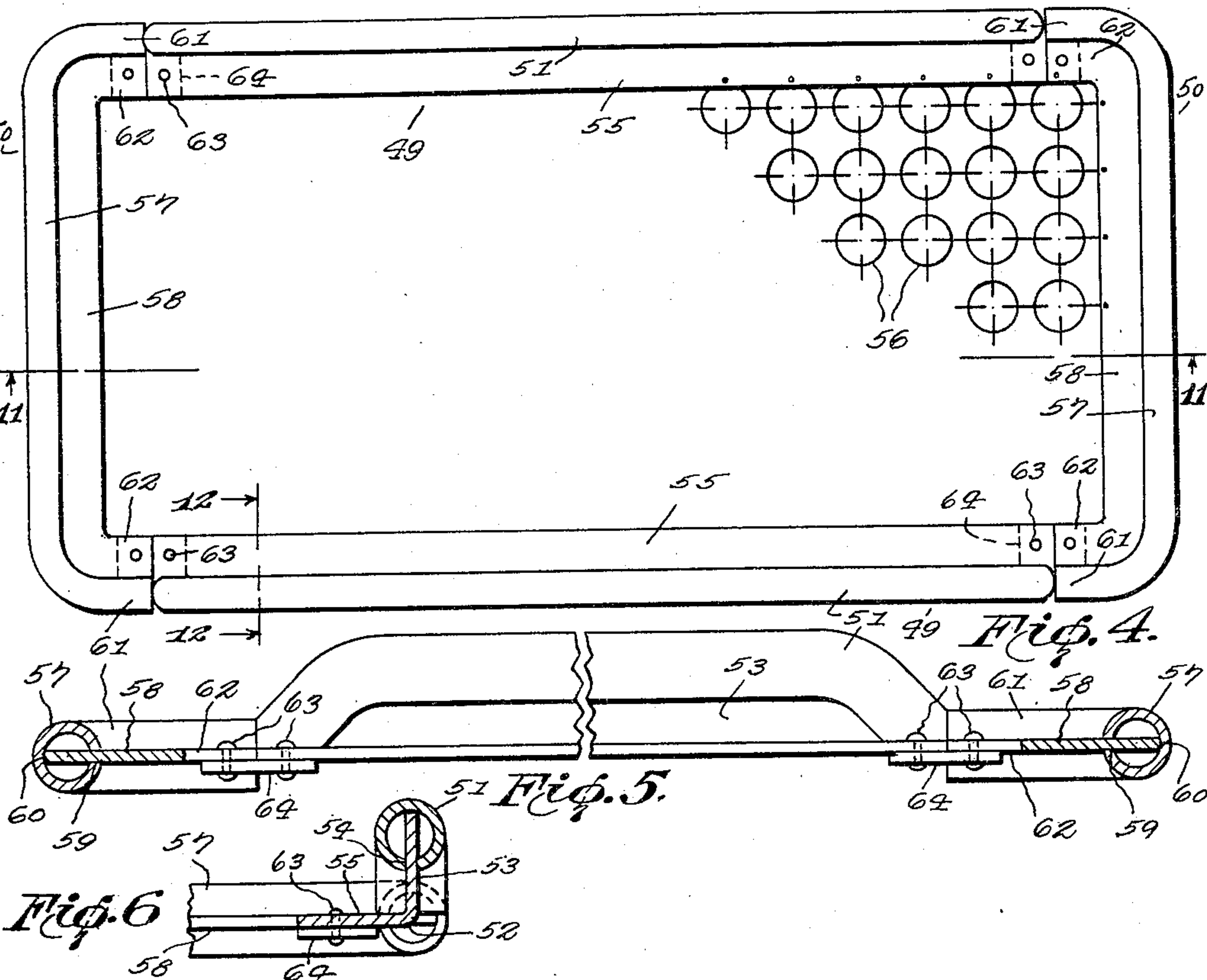
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UNITED STATES PATENT OFFICE

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BEDSPRING

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The subject-matter of the present invention relates to bed springs, of the coiled spring type, and the primary object of said invention resides in the provision of an article wherein sturdy construction, comfort and inexpensive manufacture are salient features.

An important feature of the invention resides in the provision of a split tubular member and a web portion, the latter having its medial portion clamped within said tubular member and projecting inwardly thereof to serve as a support for the coiled spring of a bed spring.

A salient feature of the invention is to provide a bed spring having side guard members composed of a tubular member and an angle iron associated therewith to present a horizontal portion adapted for attachment to the coiled springs forming a part of said bed spring, said bed spring including end guard members comprising tubular members and web portions, the latter portions being arranged in the same horizontal plane as said horizontal portions of the angle irons to facilitate the retention of a mattress on said bed spring.

Another object is to produce a bed spring having side guard members composed of tubular members and angle iron, and including end guard members embodying tubular members and web portions, said side and end members being yieldably connected, to present the tubular members of said side members elevated above the tubular members of said side members and parallel with the horizontal plane of said last-named members.

An important object of the invention is to provide a bed spring embracing side guard members comprising tubular members and angle irons and also including end guard members embodying tubular members and web portions, said side members and said end members being secured in a manner to produce a unitary sturdy structure with the horizontal legs of said angle irons and the web portions of said end members in horizontal alignment.

Another object resides in the provision of a bed spring end members composed of tubular members and web portions and side

members embodying tubular members and angle irons, said end members and said side members being so assembled as to produce an integral structure having the tubular portions of said side members positioned above the horizontal plane of the tubular members of said end members.

Another object is to provide an article of the above-mentioned character wherein the tubular member forming the side and end guard members and the angle iron associated therewith, are assembled whereby the vertical leg of said angle iron is clamped within said tubular member to form a sturdy structure, said angle iron presenting a horizontal leg portion positioned below said tubular member for the support of a mattress and for the attachment of a series of coiled springs thereto.

With these objects in view, together with others which will appear as the description proceeds, the invention resides in the novel formation, combination and arrangement of parts, all as will be described more fully hereinafter, illustrated in the drawings, and particularly pointed out in the claims.

In said drawings:

Fig. 1 is a plan view of a bed spring embodying side guard members and end guard members yieldably connected, the former members being elevated above said end members.

Fig. 2 is a longitudinal sectional view, slightly enlarged, and taken on the line 8—8 of Fig. 1.

Fig. 3 is a sectional view, slightly enlarged, and taken on the line 9—9 of Fig. 1.

Fig. 4 is a plan view of a bed spring having side members and end members depicted in Fig. 1, but with the said members rigidly connected.

Fig. 5 is a sectional view, slightly enlarged, and taken on the line 11—11 of Fig. 4.

Fig. 6 is a sectional view, slightly enlarged, of one of the side guard members, said view being taken on the line 12—12 of Fig. 4.

The bed spring shown in Figs. 1 to 3 inclusive comprises a frame embracing side guard members 33 and end guard members

34, which are yieldably connected by springs 35. Said side guard members include a tubular member 36 which is split longitudinally, as shown at 37, (see Fig. 3) and in which is clamped the vertical leg 38 of an angle iron 39, the upper edge of said leg 38 abutting the inner peripheral wall of said tubular member 36 as indicated at 40, while the horizontal leg 41 extends inwardly of the frame for the attachment of a series of coiled springs 42 thereto. The end guard members 34 are similar in construction and comprise a tubular member 43, having a longitudinal split 44, (see Fig. 2), in which is clamped the medial portion of a web portion 45, the inner edge thereof abutting the outer peripheral wall of said tubular member 43, as shown at 46, said web portion projecting inwardly of the frame for attachment to said springs 42. Said tubular members 43 and said web portions 45 having their ends bent inwardly as shown at 47 and 48 respectively, and when the guard members are connected as shown in Fig. 1, the horizontal legs 41 and the web portions 45 are in horizontal alignment and adapted to support the marginal portion of a mattress. It will be observed that the tubular members 43 of the end guard members serve to prevent longitudinal movement of the mattress and manifestly the tubular members 36 of said side guard members prevent undue transverse movement of said mattress. However, it will be noted that said tubular members 36 are elevated above said tubular members 43, (see Fig. 2), and hence the sides of the mattress intimately contact said members 36 and positively preclude displacement of said mattress and naturally prevent undue crushing thereof when abnormal weights are placed on the sides of the mattress.

The bed spring illustrated in Figs. 4 to 6 of the drawings is quite similar in construction to the form disclosed in Figs. 1 to 3, with the exception that the side guard members 49 and the end guard members 50 are riveted together to form a strong and rigid structure. While the particular resulting structure may lose some of the resiliency noted in the form shown in Figs. 1 to 3, its sturdy construction permits of its use wherein heavy loads are to be supported. It will be noted that said side guard members 49 each include a tubular portion 51 and an angle iron 52, the upstanding leg 53 of said angle iron being clamped in the split 54 formed in said tubular portion, while the inner edge of said leg 53 abuts the upper peripheral wall of said tubular portion 51. The horizontal leg 55 projects inwardly from said split for attachment to a series of coiled springs 56. The said end guard members 50 each include a tubular member 57 and a web portion 58 clamped in the split 59 of said

tubular member, while its outer end abuts the inner peripheral wall of said member, as indicated at 60, said web portion extending inwardly from the split for attachment to said coiled springs 56. It will be noted that the ends of said tubular member 57 and the web portion 58 are bent laterally, as indicated at 61 and 62 respectively, and that said web portions 58 and said horizontal legs 55 are secured together by rivets 63, plates 64 being supplied, in order that said web portions and legs may be in horizontal alignment. In this instance the tubular portions 51 are positioned above said tubular portions 57 and hence serve to retain a mattress in position and to prevent undue crushing of the longitudinal edges thereof.

Having thus fully described this invention, I hereby reserve the benefit of all changes in form, arrangement, order, or use of parts, as it is evident that many minor changes may be made therein without departing from the spirit of this invention or the scope of the following claims.

I claim:

1. A bed spring comprising side guard members, each including a split tubular member and an angle iron having its vertical leg clamped within the split of said tubular member and having its horizontal leg extending beyond said split; end guard members, each composed of a split tubular member and a web portion clamped in the split of said tubular member and projecting inwardly beyond said split; means for connecting the horizontal legs of said side members and the web portions of said end members in horizontal alignment; and a series of coiled springs supporting said horizontal legs and said web portions.

2. A bed spring comprising side guard members, each including a split tubular member and an angle iron having its vertical leg clamped within the split of said tubular member and having its horizontal leg extending beyond said split; end guard members, each composed of a split tubular member and a web portion clamped in the split of said tubular member and projecting inwardly beyond said split; means for yieldably connecting the horizontal legs of said side members and the web portions of said end members in horizontal alignment; and a spring supporting said horizontal legs and said web portions.

3. A bed spring comprising side guard members, each including a split tubular member and an angle iron having its vertical leg clamped within the split of said tubular member and having its horizontal leg extending beyond said split; end guard members, each composed of a split tubular member and a web portion clamped in the split of said tubular member and projecting inwardly beyond said split; means for connecting the horizontal legs of said side members and the web

portions of said end members in horizontal alignment, whereby the tubular members present a continuous marginal frame for the bed spring with the tubular members of the side guard members elevated above the tubular members of said end guard members and a series of coiled springs supporting said horizontal legs and said web portions.

In testimony whereof I affix my signature.
NATHANIEL GOLDBERG.

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