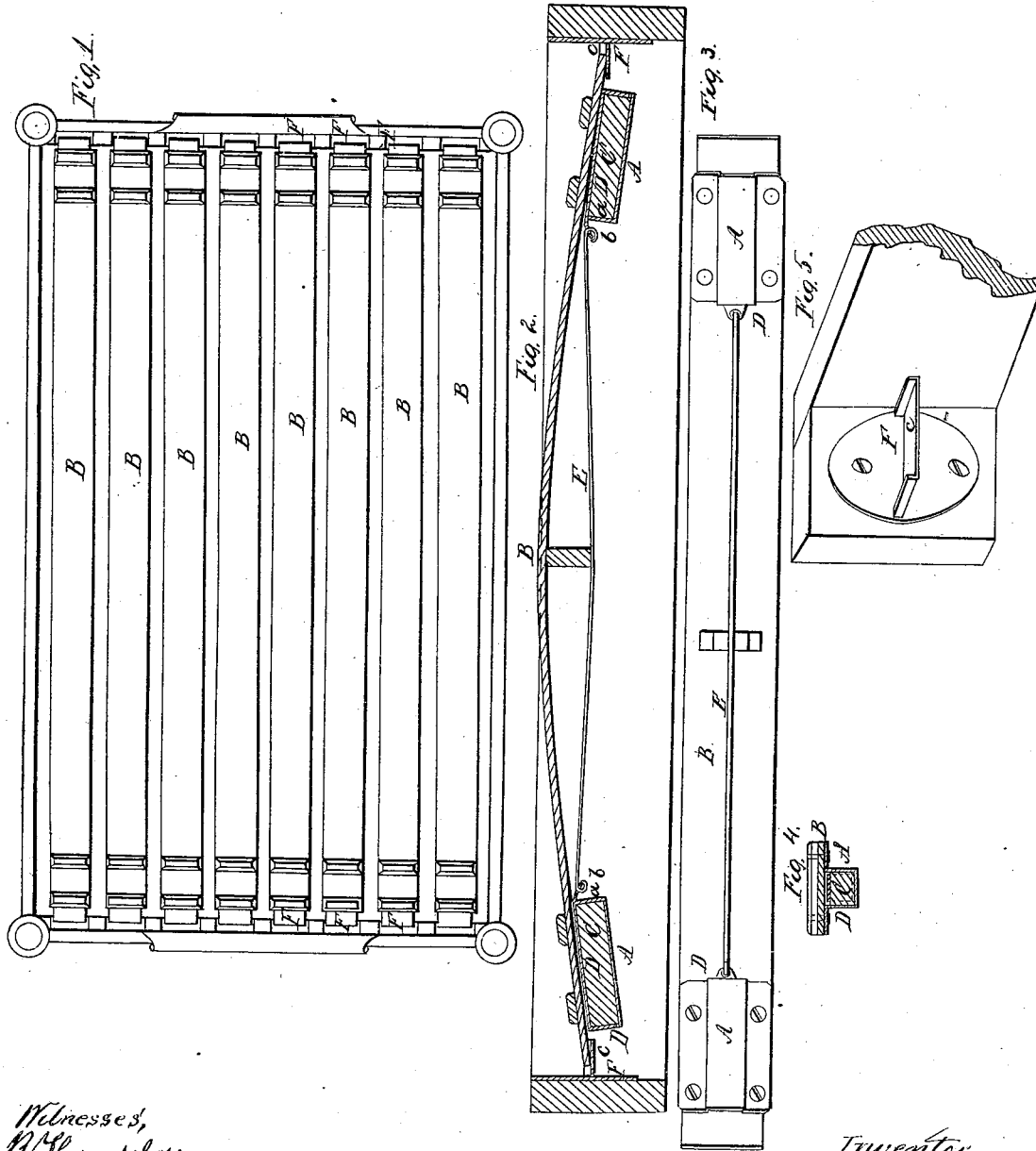


W. W. Robinson,

Bed Bottom,

N<sup>o</sup> 51,866.

Patented Jan. 2, 1866.



Witnesses,  
W. H. Campbell  
E. H. Schaefer

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# UNITED STATES PATENT OFFICE.

WM. W. ROBINSON, OF RIPON, WISCONSIN.

## BED-BOTTOM.

Specification forming part of Letters Patent No. 51,866, dated January 2, 1866.

*To all whom it may concern:*

Be it known that I, WILLIAM W. ROBINSON, of Ripon, in the county of Fond du Lac and State of Wisconsin, have invented a new and useful Improvement in Spring Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 shows a top view of a bedstead with my improved spring-slatted bottom applied to it. Fig. 2 is a vertical longitudinal section of one of the improved slats and the foot and head-rests therefor attached to head and foot-boards. Fig. 3 is an inverted view or plan of one of the improved slats. Fig. 4 is a cross-section of the same in line *yy* of Fig. 3. Fig. 5 is a perspective view of one of the rests of the slat as applied to either the head or foot board of the bedstead.

Similar letters of reference in the different figures indicate corresponding parts.

Spring-slats for bed-bottoms have been stayed or braced by tie-rods placed underneath and longitudinally with them, and said rods have been applied so as to compress two spiral springs.

My invention consists in an improvement in such braced spring-slats as are above referred to, my said improvements being an improved case or box, in combination with a rubber spring and with the spring-slat and bracing tie-rod, as will be hereinafter described; also, an improved form of screw-plate with slat rest or support formed on it, in combination with the spring-slat, bracing tie-rod, rubber spring, and two-part case or box, as will be hereinafter described.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The bedstead to which my slats are applied may be of any approved or suitable form.

On the under side of each slat, near the terminus thereof, I apply a flanged semi-tube, A, of rectangular or other suitable shape. In the drawings screws are shown as the means for fastening the semi-tubes to the slat B. In constructing these semi-tubes I cast or stamp them out so that their inner end is formed

with a head or stop, *a*, of nearly the depth of the chamber of the tube, there only being a small space left between the upper edge of this stop and the slat, as indicated at *b*. The outer ends of the semi-tubes are left entirely open. Within the semi-tubes I place oblong blocks of rubber C C', and fit over the top of each of said rubber springs, and also against the outer end of the same, an angular slide-plate, D, the forward end of said plate extending through the space *b*, as represented. The extension ends of the plates D are perforated, so as to admit of the tie or brace rod E being hooked to them, as shown. The plates D D of the two spring cases or boxes constitute tops and ends or heads thereto, and thus by means of the two parts A D the rubber spring of each box or case is perfectly inclosed on all sides and at its ends.

To support the spring-slats for a bed-bottom I arrange screw-plates F at proper distances apart on the foot and head boards or rails of the bedstead, as represented in the drawings. The screw-plates are each cast or stamped with a grooved portion, *c*, extending out horizontally from the face of the plate, as shown in Fig. 4. These plates thus formed both support and prevent any lateral movement of the slats.

From the foregoing description it will be seen that I can detach my brace or tie rods and withdraw the springs from their boxes or cases with the greatest ease.

My construction enables me to use solid blocks of rubber as springs, and thus the difficulty arising from spiral metal springs becoming so closely compressed as to cease to act as intended is overcome.

My construction of spring case or box is very simple and durable, and is of such a character that it may be either cast or stamped out.

My arrangement of the two parts of the case renders the passing of the rod through the spring, whether it be of metal or rubber, wholly unnecessary.

The construction and arrangement as a whole is such that any intelligent house-keeper can apply and keep it in order, ordinary wear and tear excepted.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The construction, arrangement, and combination of the two-part spring cases or boxes and springs C C' with the spring-slat B and tie rod or brace E of a spring bed-bottom, substantially as and for the purposes set forth.

2. The rubber spring C, in combination with the two-part case or box A D, constructed and operating as described, the same being an attachment for a braced spring-slat of a spring bed-bottom, as set forth.

3. The screw-plates F, with a grooved portion, *c*, in combination with the spring-slat B, two-part boxes A D, springs C C', substantially as and for the purpose set forth.

WILLIAM W. ROBINSON.

Witnesses:

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