

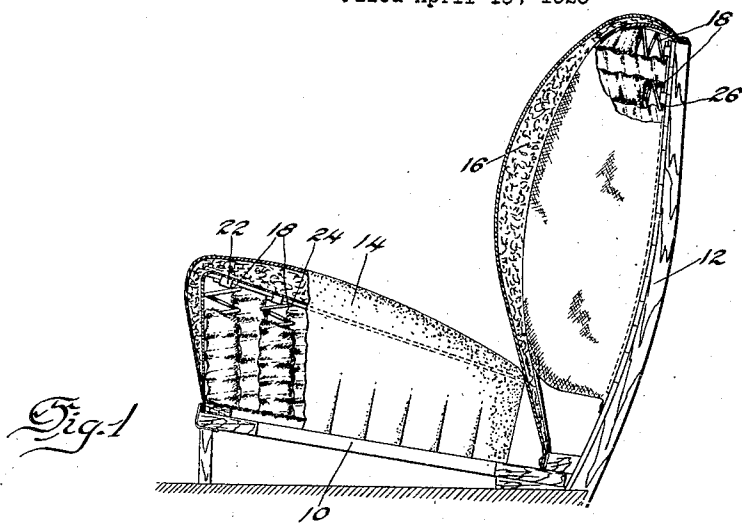
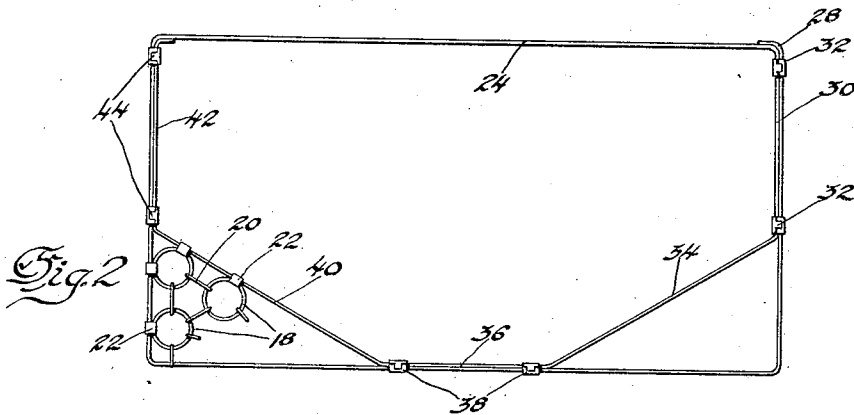
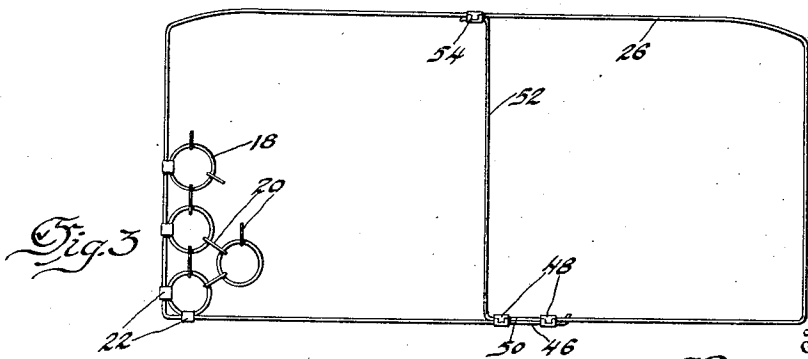
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R. BERINGER

SEAT

Filed April 19, 1923



Inventor.

Roscoe Betinger

By His Attorneys

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UNITED STATES PATENT OFFICE.

ROSCOE BERINGER, OF DETROIT, MICHIGAN, ASSIGNOR TO GENERAL MOTORS CORPORATION, OF DETROIT, MICHIGAN, A CORPORATION OF DELAWARE.

SEAT.

Application filed April 19, 1923. Serial No. 633,160.

To all whom it may concern:

Be it known that I, ROSCOE BERINGER, a citizen of the United States, and a resident of Detroit, county of Wayne, and State of Michigan, have invented certain new and useful Improvements in Seats, of which the following is a full, clear, concise, and exact description, such as will enable others skilled in the art to which the invention relates to make and use the same, reference being made therein to the accompanying drawings, which form a part of this specification.

This invention relates to seats, especially upholstered seats of a type adapted for use in automobiles, and is illustrated as embodied in such a seat having a novel border wire encircling and secured to the upper ends of springs which support the upholstery. An object of the invention is to provide a strong but inexpensive seat of this sort which can be assembled rapidly and which has no projecting portions which might damage the upholstery.

From this point of view the invention contemplates attaching the upholstery supporting springs to an encircling border wire of novel form which is made from a single piece of wire bent in such a manner as to form integral bracing portions. In one form of the invention, these bracing portions extend across the central portion of the border wire in such a manner that there are overlapping sections adjacent the bracing portions which are secured together. By this arrangement the usual joints and nuts for securing different pieces of wire together are eliminated and smooth and inexpensive clips are sufficient to hold the parts of the border wire securely.

The above and other objects and features of the invention, including various novel combinations and desirable particular constructions of parts, will be apparent from the following description of the illustrative embodiment shown in the accompanying drawings, in which:

Figure 1 is a view partly in side elevation and partly in vertical section of an automobile seat and back embodying the invention;

Figure 2 is a top plan view of the border wire of the seat shown in Figure 1, together with some of the supporting springs to il-

lustrate their connection to the border wire; and

Figure 3 is a similar view of the border wire and springs of the back of the seat.

In the embodiment selected for illustration, the seat comprises a bottom 10 and a back 12 having spring-supported upholstery portions 14 and 16 respectively. Each of these portions is shown as being supported by a series of coil springs 18 arranged with parallel axes which are connected to one another by wire clips or other suitable connecting devices 20, and which are also connected by sheet metal clips 22 to a seat border wire 24 and a back border wire 26.

The seat border wire 24 is shown in top plan in Figure 2 and is formed from a single piece of wire bent into a generally rectangular form, and with one end 28 adjacent one of the corners of the rectangle and overlapped by a portion 30 fastened thereto by sheet metal clips 32. Beyond the portion 30 is a diagonally extending bracing portion 34, and a second overlapping portion 36 fastened to the center of one of the longer sides of the rectangle by sheet metal clips 38. The portion 36 is further extended to form a second diagonal brace 40 beyond which is an overlapping portion 42 secured by clips 44. It will be observed that this construction is of very considerable strength in proportion to its weight, that it is quickly and inexpensively made up and assembled with the rest of the spring structure and that it presents no undesirable projections as in the case of the usual connections.

The back border wire shown in Figure 3 has one end 46 arranged centrally of one of the longer sides of the rectangle and fastened by clips 48 to an overlapping portion 50 which is extended to form a transverse bracing portion 52 secured at 54 to the opposite side of the rectangle.

While an illustrative embodiment of my invention has been described in detail, it is not my intention to limit its scope to that embodiment or otherwise than by the terms of the appended claims.

I claim:

1. A border wire for a seat spring structure comprising, in combination, a single wire bent to encircle the top ends of a set of springs and having its end extending

from one side across the central portion of the border wire and attached to another side.

2. A border wire for a spring seat structure comprising, in combination, a single wire bent into a generally rectangular form in such a manner that an intermediate part of the wire overlaps and is secured to one end thereof along one side of the rectangle, the other end being extended across the central space of the rectangle and attached to one of the other sides.

3. A border wire for a seat spring structure comprising, in combination, a single wire bent into a generally rectangular form and having a portion extending across the rectangle, there being overlapping portions of the wire at opposite ends of said portion which are secured together.

4. A border wire for a seat spring structure comprising, in combination, a single wire bent into a generally rectangular form with one end adjacent one of the corners, and further bent to overlap the side of the rectangle adjacent said end and to be secured thereto and to extend diagonally toward the next side and be secured thereto.

5. A border wire for a seat spring structure comprising a single wire bent into a generally rectangular form and further bent to provide diagonal braces extending from the two opposite shorter sides, there being overlapped portions at opposite ends of said braces which are secured together.

In testimony whereof I affix my signature.

ROSCOE BERINGER.