

(No Model.)

E. M. HULSE.
ROCKING CHAIR.

No. 593,068.

Patented Nov. 2, 1897.

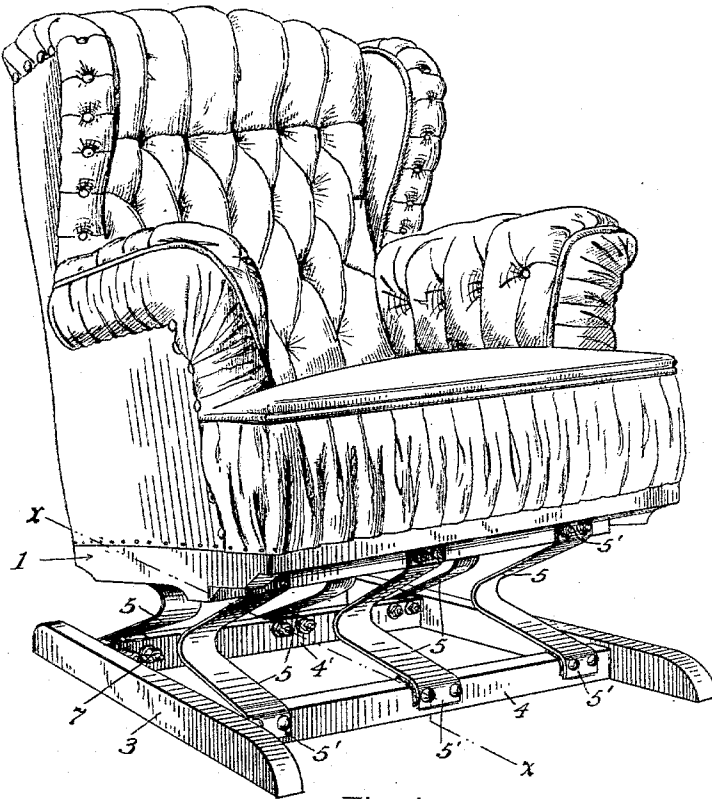


Fig. 1.

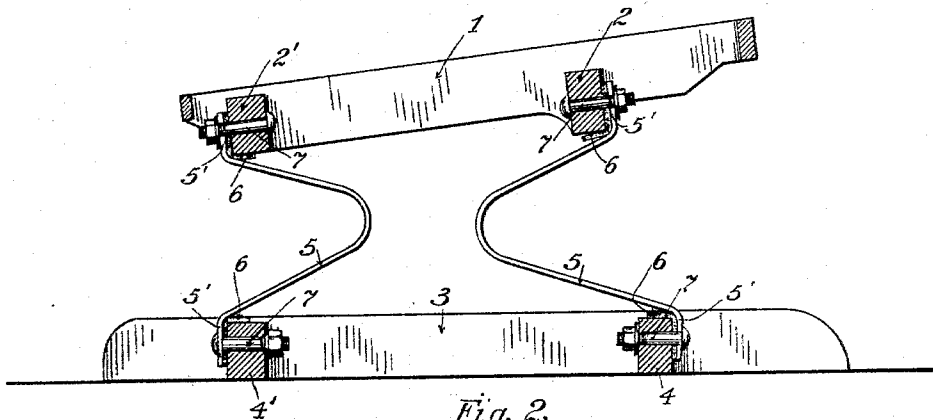


Fig. 2.

Witnesses
Grant Burroughs.
E. M. Hulse.

Inventor
Edwin M. Hulse,
By his Attorneys
Finckel & Finckel.

UNITED STATES PATENT OFFICE.

EDWIN M. HULSE, OF COLUMBUS, OHIO, ASSIGNOR TO THE HULSE-ANDERSON COMPANY, OF OHIO.

ROCKING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 593,068, dated November 2, 1897.

Application filed May 14, 1897. Serial No. 636,472. (No model.)

To all whom it may concern:

Be it known that I, EDWIN M. HULSE, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Rocking-Chairs; 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.

The object of my invention is to provide a chair that shall have an easy agreeable rocking motion in any and all directions; and my invention consists in a novel arrangement of springs of particular form whereby this result is attained.

In the annexed drawings, Figure 1 is a perspective view of a chair constructed according to my invention. Fig. 2 is a vertical sectional view of the seat-frame and base, taken on a plane indicated by line *xx*, Fig. 1, showing the form of spring and the mode of their attachment.

Like characters of reference indicate corresponding parts in the two figures.

1 designates the seat-frame, which has front and rear cross pieces or bars 2 and 2', the front piece being set a little back of the forward edge of the seat proper.

3 designates the base, which has cross pieces or bars 4 and 4'. Between these cross-pieces of the seat-frame and base I arrange three pairs of V-shaped springs 5, of flat metal, one pair in the middle and one pair at either side. These springs 5 have their edges bent outward, as shown at 5', so as to fit against the outer faces of the cross-pieces 2 2' and 4 and 4', to which they are secured by means of bolts and nuts. The rear springs are slightly smaller than the front ones, so that there shall be a slight backward inclination of the seat.

In order to avoid any noise in the action of

the springs, I may interpose between the bent ends 5' of the spring and the cross pieces or bars a small piece of fabric 6.

By my particular construction and arrangement of the springs I not only secure great elasticity, but produce a cheap, durable, and neat-appearing chair.

The fastening of the springs to the outer faces of the cross-pieces relieves a large part of the strain in action of the springs upon the bolts, as the said strain, beside being indirect, is partly borne by the upper faces of said cross pieces or bars.

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

1. A rocking-chair comprising a seat-frame, a base, and but three pairs or sets of V-shaped springs, the apexes of each pair arranged toward each other, and one pair of said springs located centrally under the seat-frame and the other two pairs one each at the sides thereof and the said springs also arranged in planes transverse to the front and back of the chair, substantially as shown and described.

2. A rocking-chair comprising a seat-frame and a base, said seat-frame and base having cross-bars 2 2' and 4 4' parallel with the front and back of the seat, and but three pairs of V-shaped springs of flat metal, the apexes of each pair arranged toward each other and one pair of said springs located centrally under the seat-frame and the other two pairs one each at the sides thereof, and the said springs also arranged in planes transverse to the front and back of the chair, the ends 5' of the springs being bent outward to fit and be secured upon the faces of the bars 2 2' and 4 4', substantially as shown and described.

In witness whereof I affix my signature in the presence of two witnesses.

EDWIN M. HULSE.

Witnesses:

G. W. ALFRED,
GEORGE M. FINCKEL.