(No Model.)

W. I. BUNKER.

SPRING ATTACHMENT FOR PLATFORM ROCKING CHAIRS.

No. 297,108. Patented Apr. 22, 1884.

Fig. 1.

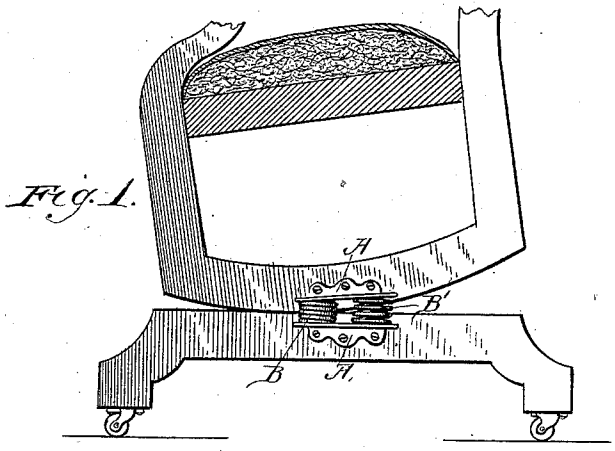


Fig. 3.

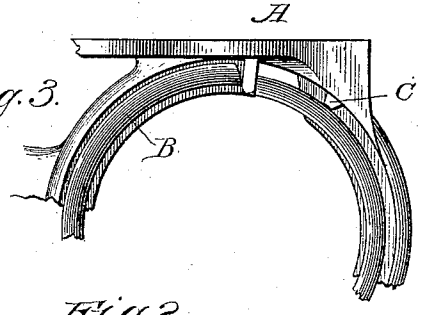
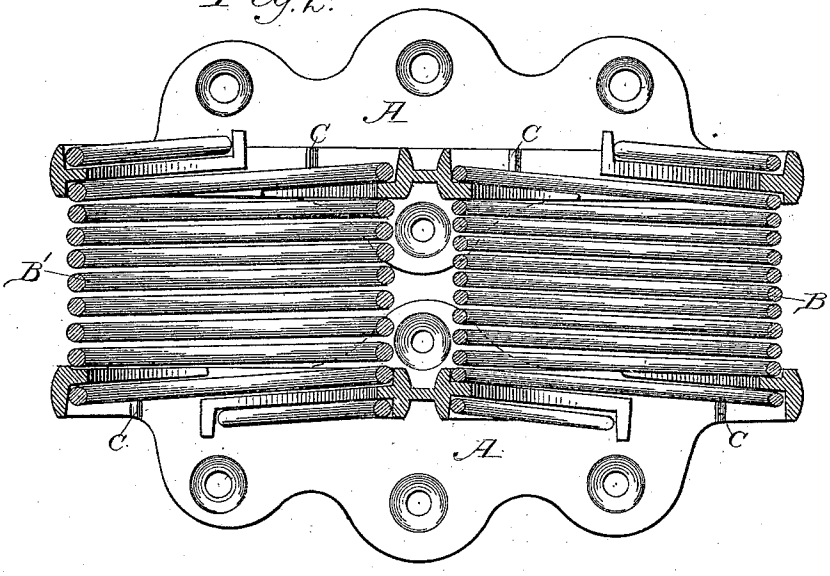


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM I. BUNKER, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO JACOB BEIERSDORF, OF SAME PLACE.

SPRING ATTACHMENT FOR PLATFORM ROCKING-CHAIRS.

SPECIFICATION forming part of Letters Patent No. 297,108, dated April 22, 1884.

Application filed July 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM I. BUNKER, of Chicago, Illinois, have invented certain new and useful Improvements in Spring Attachments for Platform Rocking-Chairs, of which the following is a specification.

The object of my invention is to provide heavy rocking-chairs with suitable springs; and to this end the invention consists in providing the chair with a double bracket on either side, such bracket having coiled therein two large stiff springs, in making one of said springs of lighter wire than the other, and in providing a lug on said bracket to form a pivot or bearing to lessen the friction of the spring.

In the accompanying drawings, Figure 1 shows my improved spring attached to the inner faces of the rocker and base-rail of a platform rocking-chair. Fig. 2 is a vertical sectional view of the springs detached; and Fig. 3 is a broken section of one of the spring-coils, showing the lug for holding the spring out from the casting, as hereinafter described.

A A are the castings which hold the spring-coils, B B' the spring-coils, and C the shoulder or lug on the casting A, which holds the upper and lower coils of the springs away from the face of the castings. Double brackets A A are provided for each side of the chair and secured to the rocker and base-rail, respectively. These brackets are provided with an annular rib or flange cast on the inside face of the bracket, and provided with a stop at the end of the rib, against which the end coil of the spring rests. Within these brackets are coiled two broad stiff springs, B B, their ends being securely held by the annular rib or flange on brackets A. This double bracket is cast in one piece, and when provided with two heavy springs will furnish a safe and strong attachment for heavy chairs. No stops or side flanges will be required to prevent lateral displacement of the rockers. The springs are coiled into the brackets before the latter are secured to the chair. The two springs of each pair may be oppositely coiled, so that the tendency of each to throw the rockers out of line with the base is overcome by the other. As the front portion of the chair has a longer movement upward and downward than the rear portion, I find it desirable to construct the rear spring of a somewhat larger wire than the front spring. This permits a longer sweep of the front ends of the rockers, and by the increased strength given the rear spring prevents the displacement of the rockers or the liability of the breaking of said spring.

To overcome the friction produced by the rubbing of the end coils of the springs against the brackets when in use, I have reduced the bearing-surface of such end coils on such brackets to a minimum by casting on the inside of the bracket, behind the end coils, a shoulder or lug, (marked C in the drawings,) which lug prevents contact of the springs and brackets, and thus avoids the friction between them and the rasping noise incident thereto.

I claim—

1. The double brackets A A, having coiled therein the springs B B, as a new manufacture for attachment to platform rocking-chairs, substantially as and for the purpose described.

2. In a platform rocking-chair, the combination, with the rocker and base-rail, of the brackets A A and coil-springs B B', one of said springs being constructed of lighter wire than the other, substantially as described, and for the purpose set forth.

3. The combination, in a platform rocking-chair, of the brackets A A and coil-wire spring B, said brackets provided with a lug, C, substantially as described, and for the purpose set forth.

WILLIAM I. BUNKER.

Witnesses:
THOMAS A. BANNING,
CHAS. C. LINTHICUM.