

(No Model.)

J. FLINN.
BASE ROCKING CHAIR.

No. 345,678.

Patented July 20, 1886.

Fig. 1.

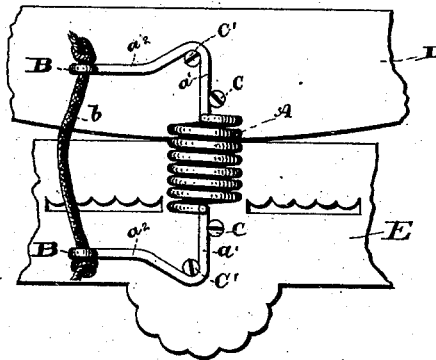
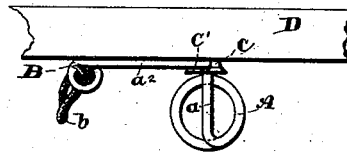


Fig. 2.



Witnesses:

N. S. Armstrong.

Jno. G. Hall.

Inventor.
John Flinn
By Thos. B. Hall,
his Atty.

UNITED STATES PATENT OFFICE.

JOHN FLINN, OF CLEVELAND, OHIO.

BASE-ROCKING CHAIR.

SPECIFICATION forming part of Letters Patent No. 345,678, dated July 20, 1886.

Application filed December 22, 1884. Renewed December 19, 1885. Serial No. 186,171. (No model.)

To all whom it may concern:

Be it known that I, JOHN FLINN, a citizen of the United States, residing at Cleveland, county of Cuyahoga, and State of Ohio, have
5 invented certain new and useful Improvements in Base-Rocker Springs; and I do hereby declare the following to be a description of the same, and of the manner of constructing and using the invention, in such full, clear,
10 concise, and exact terms as to enable any person skilled in the art to which it appertains to construct and use the same, reference being had to the accompanying drawings, forming a part of the specification, the principle of the invention being herein explained,
15 and the best mode in which I have contemplated applying that principle so as to distinguish it from other inventions.

My invention is an improvement in springs
20 used in base-rockers.

In the drawings, Figure 1 is a side elevation of the spring, shown as in operative attachment. Fig. 2 is a top view of the spring.

A is the coil-spring, formed of any suitable
25 wire, of suitable size for stiffness and strength, and containing any desired number of coils, according to the size and description of the base-rocker. The extension of the wire at each end of the coil is bent at right angles
30 across the diameter of the coil, as in section *a*, then bent again at right angles in the longitudinal plane of the coil and forming the shanks *a'*, and then bent again in an acute angle into arms *a''*, both in one and the same
35 direction and in the horizontal plane of the shanks *a'*. Said arms *a''* are of equal length, and their ends are rounded into the open eye B. Said eye is for the accommodation of the check-string *b*, which string serves to hold
40 the rocker from rocking back too far. The arms *a''* are elastic, so that the check of string *b* may not be too abrupt. Spring A thus formed is applicable to either side of a chair or other similar article indiscriminately.

45 When the spring is to be attached to the base E and the rocker D, it is placed vertically along the inside faces of said base and rocker, as the latter rests normally upon the former, and fastened to them, respectively, by

the screws C and C', screw C' being located 50 in the angle formed by shanks *a'* and arms *a''*, and screw C located on the opposite side of shanks *a'*, and near the angle formed by said shank as it bends across the diameter of the coil at *a*. The arms *a''* both project forwardly. 55 The said shanks and arms are of sufficient firmness to prevent the rockers from swerving sidewise from the normal line of the base.

It will be seen that my spring as described is very simple in construction and inexpensive 60 in cost; also, it is readily removable from the rocker and base by a simple outward pressure of arm *a''*, which lifts it clear from the attaching-screws; hence, if a spring
65 proves too weak or too stiff, or has any other defect, or meets with any breakage, it can be detached in a moment, and another can be in the same easy way put in its place; and as the strain in a rocking-chair is normally backward, the forwardly-located check-string *b* 70 prevents all excess of such strain. Said check device *b* may be made of any suitable material, but is preferably a fibrous cord; hence

What I claim is—

1. The combination, with a base, E, and a 75 rocker, D, of a coil-spring, A, having two end arms, *a''*, respectively, connected with said base and rocker, and a device, *b*, connecting the extremities of said arms together, substantially as set forth. 80

2. The combination, with the base-rocker and coil-spring A, having the elastic arms *a''*, integral with itself, of the check-string *b*, fastened in the eyes B of said arms, substantially 85 as set forth.

3. The combination, with base E and rocker D, provided each with fastenings C and C', of coil-spring A, having shanks *a'*, and arms *a''*, angular to the latter, each shank having fastenings C and C', respectively, on opposite 90 sides thereof, substantially as set forth.

In testimony that I claim the foregoing to be my invention I have hereunto set my hand this 18th day of December, A. D. 1884.

JOHN FLINN.

Witnesses:

THOS. B. HALL,
NOAH S. AMSTUTZ.