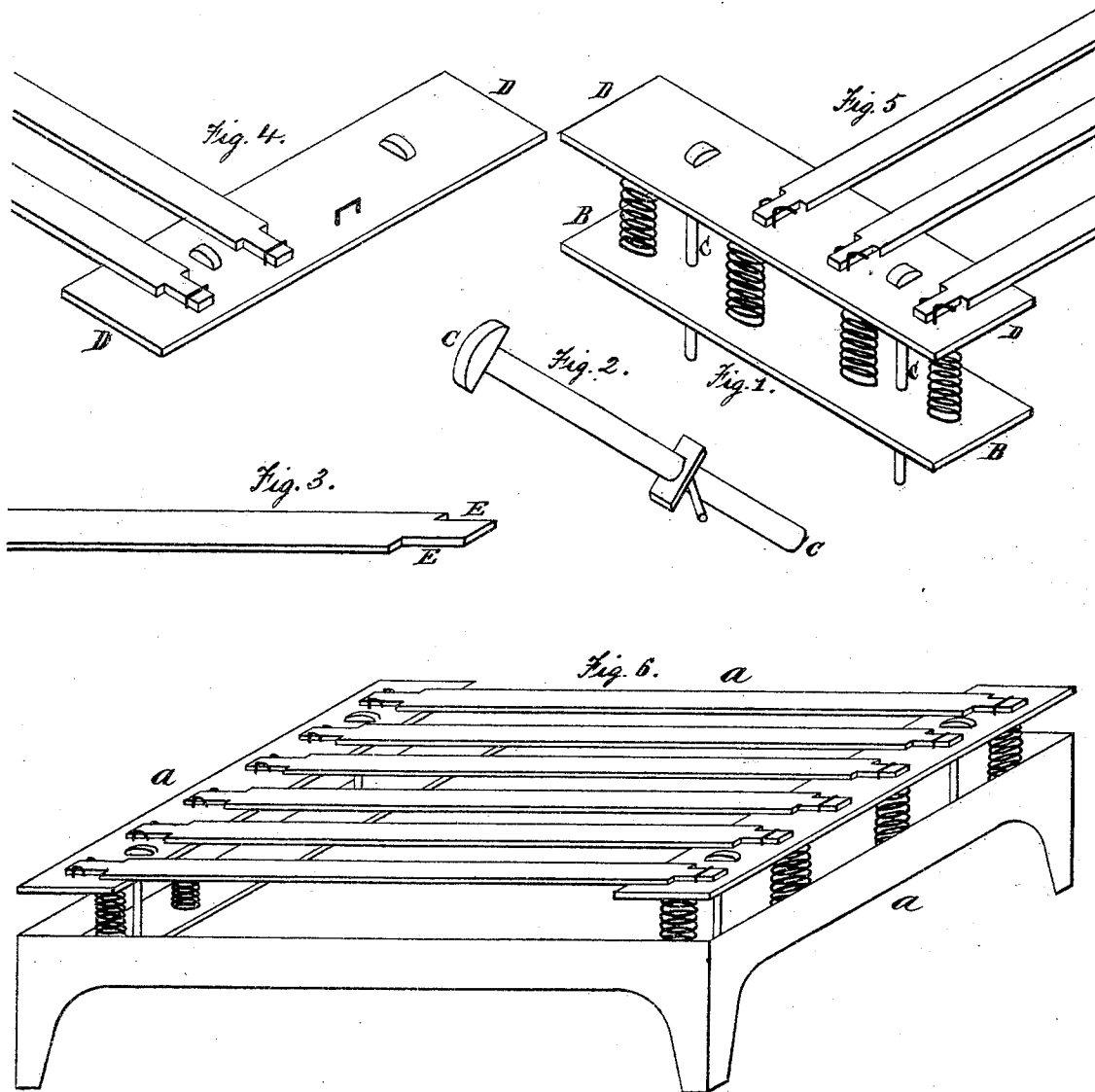


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William F. Clark's
Imp^d Bed and Cushion Bottom.

No. 118,908.

Patented Sep. 12, 1871.



Witnesses.
Harry D Walker.
Samuel W Garvin.

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UNITED STATES PATENT OFFICE.

WILLIAM F. CLARK, OF MT. PLEASANT, IOWA.

IMPROVEMENT IN BED AND SEAT-BOTTOMS.

Specification forming part of Letters Patent No. 118,908, dated September 12, 1871.

To all whom it may concern:

Be it known that I, WILLIAM F. CLARK, of the county of Henry and State of Iowa, have invented a new and improved elastic seat or bottom for chairs, settees, bedsteads, &c., of which the following is a specification:

My invention relates to an improved method of constructing elastic seats or bottoms for beds, chairs, settees, &c.; and consists in confining spiral wire springs between bars or plates united by pins secured in the upper and playing freely through the lower plates, and in combining therewith transverse slats secured upon the upper bars, as hereinafter described, the object of my invention being to so confine the springs as that they may not become displaced or fall out of a line of direct resistance to the weight applied, and to obtain in the seat or bottom free and uniform compression and reaction and at the same time protect the material covering the springs from contact therewith.

In the accompanying drawing, Fig. 1 is a view of one of the spring-supports, consisting of a single row or rank of springs confined between an upper and lower bar. Fig. 2 is a detached view of one of the stay or guide-pins uniting the upper and lower bars of the spring-support, Fig. 1. Fig. 3 is a detached view of the end of one of the transverse slats. Fig. 4 is a view in perspective of the upper bar of the spring-support for one end of my improved spring-bottom, illustrating the combination of the transverse slats therewith. Fig. 5 designates, in the view Fig. 1, the manner of combining the transverse slats with one of the end spring-supports in such manner as to allow the slats to move longitudinally and yet be confined laterally. Fig. 6 is a view in perspective of one of my improved spring-bottoms complete, but without spring-supports intermediate between the ends of the transverse slats.

a a a a are the four sides of a frame, to inclose the spring-supports carrying the slats, in my improved bottom for beds, seats, &c. *B B* and *D D* are bars or plates, between which are placed any suitable number of spiral wire springs, (see Fig. 5,) the bars being made of a width somewhat greater than the diameter of the coil in the springs. *C C*, Figs. 2 and 5, are stay-pins or guide-bolts, securely fastened to the upper bars *D D* of the spring-supports, so as to project down-

ward and pass closely yet freely through apertures pierced in the lower bars *B B*. Nuts or keys are placed upon the lower end of these stay-pins or bolts *C C*, below the lower bar *B*, through which they project, to arrest the upward movement of the upper bar and thus control the elastic play of the springs. These guide-pins or bolts *C C*, whose lower ends freely play through the lower bar *B* of each spring-support, serve to prevent the springs confined between the two bars from lurching or bending over under the influence of ill-distributed pressure thereon, and to restrain also, by means of their nuts or keys too great a rebound of the springs when pressure is removed therefrom. The upper bar *D*, Fig. 1, combined as described with the lower bar *B*, and confining a series of included spiral springs, forms an elastic or spring-support, upon two or more of which are laid and secured transverse slats, which complete my improved elastic bottom for bed or chair. The ends of the slats are tenoned, as shown at *E E* in Fig. 3, to pass under staples secured in the bar *D* of the spring-support at one end, as illustrated in Fig. 4, and between pins or brackets secured, as shown in Fig. 5, in the top bar of the spring-support at the other end, and which permits a free longitudinal play of the slats but confines the same laterally. Any desired number of spring-supports *D B*, constructed as described, of an upper and lower bar, and a series of interposed springs (see Fig. 1) may be placed in the frame *a a a a*, between the two end-supports upon which the extreme ends of the slats rest, and in such case the transverse slats are confined laterally upon said intermediate spring-supports by means of pins or brackets, as shown in Fig. 5.

I claim as my invention—

An elastic or spring bottom for seats, beds, &c., consisting of bars or plates *D B* embracing interposed spiral springs, and confined and controlled by means of stay-pins or bolts *C C*, in combination with transverse slats resting and confined on the upper bar or plate *D*, all substantially as and for the purpose herein set forth.

WILLIAM F. CLARK.

Witnesses:

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