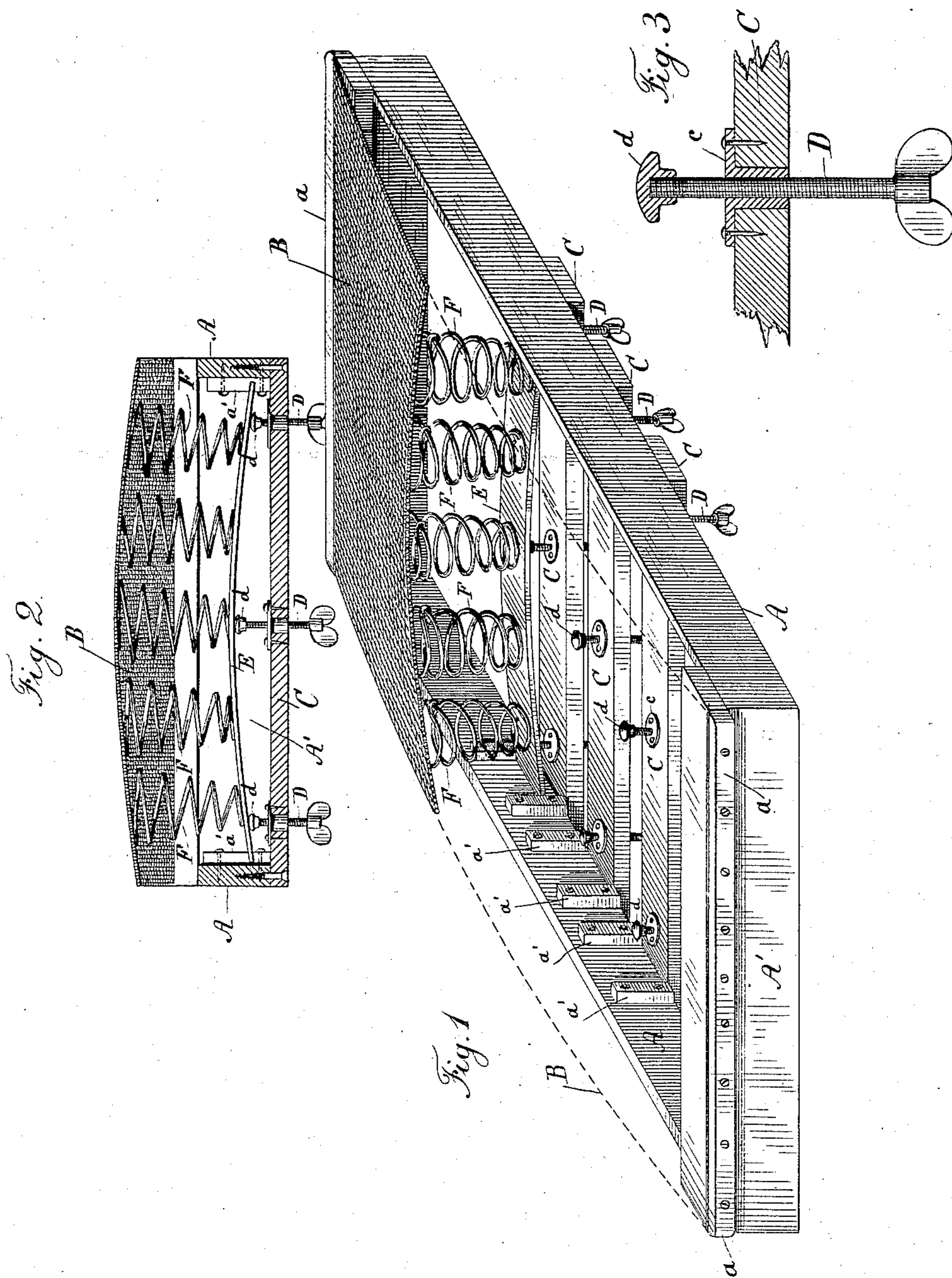


(No Model.)

S. S. BURR.
SPRING BED BOTTOM.

No. 316,444.

Patented Apr. 28, 1885.



Witnesses:
J. Lamm.
L. Holmboe.

Inventor:
Samford S. Burr
By Prince & Fisher
Attorneys.

UNITED STATES PATENT OFFICE.

SANFORD S. BURR, OF WINNETKA, ASSIGNOR TO THE BURR BED COMPANY,
OF CHICAGO, ILLINOIS.

SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 316,444, dated April 23, 1885.

Application filed October 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, SANFORD S. BURR, a citizen of the United States, residing at Winnetka, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Spring Bed-Bottoms, of which I do declare the following to be a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

In an application for Letters Patent filed by me on the 10th day of October, 1883, I have described and claimed, broadly, certain improvements in spring bed-bottoms whereby all sagging or irregularities of the mattress or of the woven-wire cover on which the mattress rests when such cover is employed can be speedily and effectually remedied by adjusting the spiral springs which lie beneath the mattress or cover, and which after long or severe usage are apt to become permanently depressed. In such former application, as also in a second application filed of even date therewith, the adjustment of the spiral springs was effected by means of adjustable strips on which the movable spring-slats were sustained.

The object of my present invention is also to provide means whereby the cover of the bed-bottom may be kept free from sagging or irregularities. It is to be distinctly understood, however, that although my invention is illustrated in connection with and is particularly suited to bed-bottoms having woven-wire covers, it is nevertheless applicable, also, where covers of other material are employed, or where the mattresses rest directly upon the springs or slats thereon.

In the accompanying drawings, Figure 1 is a view in perspective (parts being removed) of a spring bed-bottom embodying my invention. Fig. 2 is a view in transverse vertical section, and Fig. 3 is a detail view of one of the adjusting-screws.

Over the mattress-frame, consisting of the side bars, A, and end bars, A', is stretched the cover B of the bed-bottom, this cover being preferably formed of woven-wire fabric, having its ends secured to the end bars, A', by means of the clamp-strips *a*. Extending across the bed-frame, and attached to the side bars, A, are the supporting stationary strips C,

in any desired number, which carry the threaded bushings *c*, within which work the screw-adjusters D, preferably so disposed that there shall be an adjuster at each side and at the middle of the stationary strips C. Upon the enlarged ends *d* of the adjusters D rest the movable slats E, in number corresponding with the fixed strips C, and carrying the spiral supporting-springs F, which bear against the under side of the cover B, and serve to keep the same tightly stretched. The movable slats are preferably formed of thin elastic material, the free ends of said slats being retained between the guide-strips *a*² in manner to prevent the displacement of the slats, without, however, affecting their easy vertical adjustment at any desired point.

From the foregoing construction it will be seen that when from long or severe usage any of the springs have become permanently depressed, and the cover in consequence is irregular or sags at such points, by properly operating the screw-adjusters located beneath the depressed springs said springs will be readily lifted vertically until they bear again upon the cover, and thus tightly stretch the same. So, also, the tension of the wire cover can be varied at either side, as desired, to accommodate the bed to the differences in weight of its occupants.

It will be readily understood that modifications of the details of structure shown may be made without departing from the spirit of this invention. Thus, for example, other lifting-adjusters between the stationary strips and movable slats—such as wedges, cams, or screw-jacks—may be employed, although I regard the screw-adjusters as the preferable construction. So, also, without avoiding the scope of the invention, instead of the stationary strips, brackets may be affixed to the inner faces of the side bars to support the adjusters on which the spring-slats rest. It will furthermore be seen that in case the mattress rests directly upon the springs or upon the slats thereon, the number of springs and adjusting-strips may be increased to extend from end to end of the bed.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a bed-bottom, the combination, with the main frame and with the cover connected at its ends to said frame, of the movable slats, the supporting-springs mounted thereon, the stationary strips, and the vertical adjusters sustained upon the strips and bearing against the movable slats to regulate the position thereof and the tension of the springs, substantially as described.

2. In a bed-bottom, the combination, with the main frame, of the movable slats, the supporting-springs mounted thereon, the stationary strips, and the vertical adjusters connecting said strips with the movable slats, whereby the position of the slats and springs with relation to the strips may be regulated, substantially as described.

3. In a bed-bottom, the combination, with the main frame and with the cover connected at its ends to said frame, of the movable and flexible slats, the supporting-springs mounted thereon, the stationary strips, and the vertical adjusters connecting said strips with the movable slats, whereby the position of the slats and the tension of the springs and cover may be regulated, substantially as described.

In testimony whereof I have hereunto set my hand this 26th day of October, 1883.

SANFORD S. BURR.

Witnesses:

GEO. P. FISHER, Jr.,
JAMES H. PEIRCE.