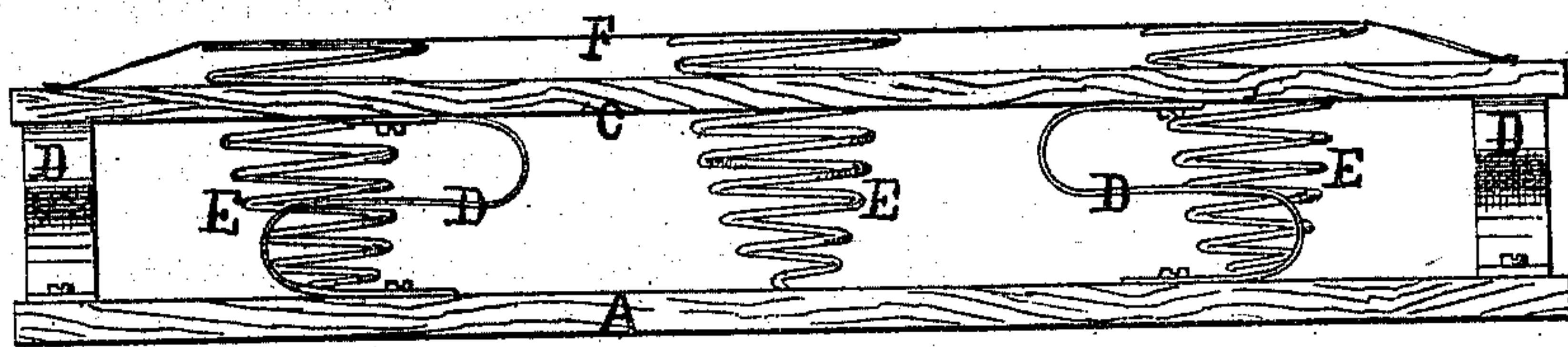
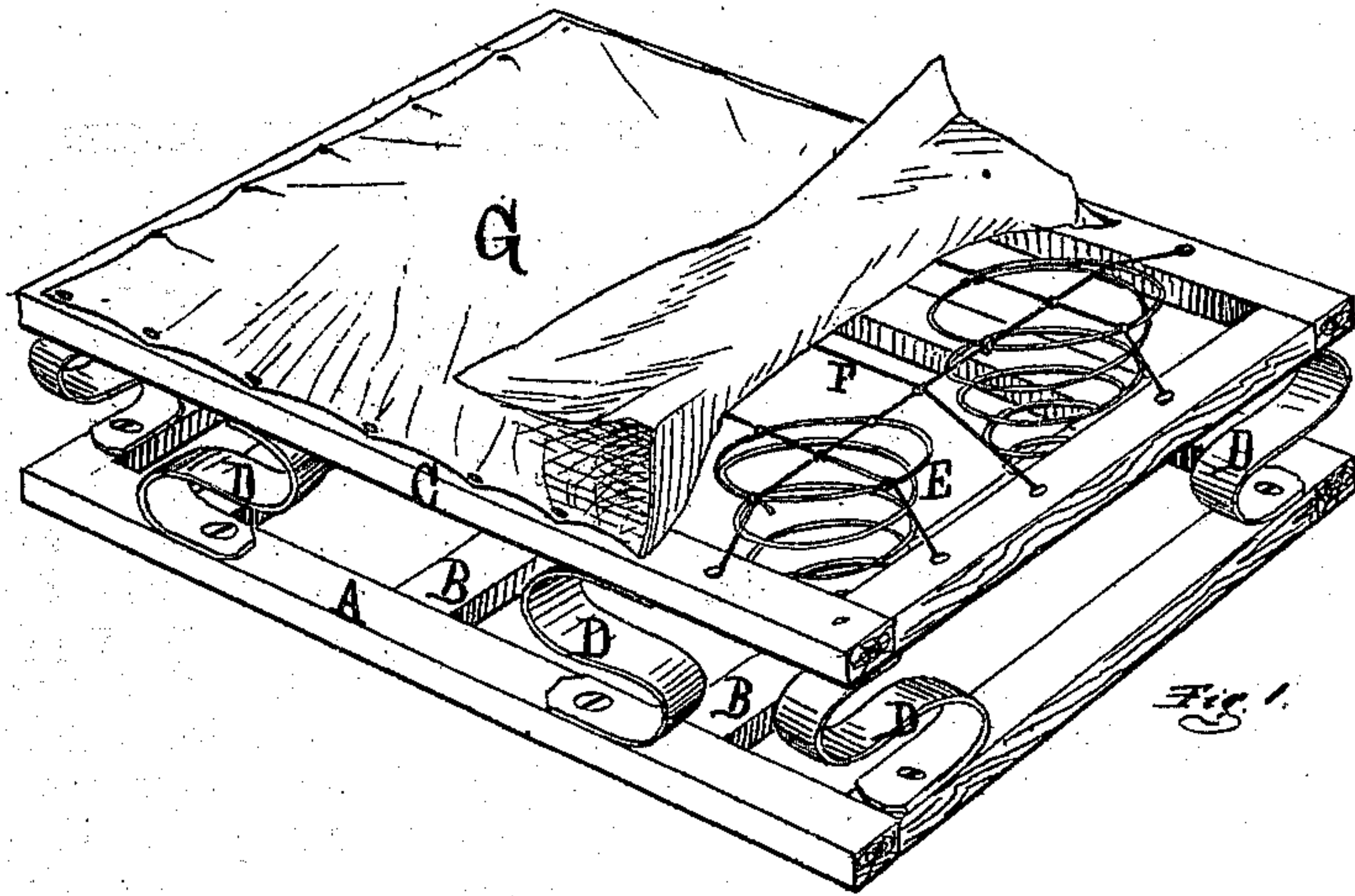


N. W. CLARK.

Improvement in Spring Bed-Bottoms.

No. 126,675.

Patented May 14, 1872.



ATTEST:
H. S. Sprague
H. A. Everts

INVENTOR:
Nelson W. Clark
Per Atty—
H. S. Sprague

UNITED STATES PATENT OFFICE.

NELSON W. CLARK, OF CLARKSTON, MICHIGAN, ASSIGNOR TO HIMSELF
AND CLARKSON S. LINABURY, OF SAME PLACE.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. 126,675, dated May 14, 1872.

To whom it may concern:

Be it known that I, NELSON W. CLARK, of Clarkston, in the county of Oakland and State of Michigan, have invented a new and useful Improvement in Spring Bed-Bottoms; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my improved bed-bottom, and Fig. 2 is a side elevation of the same.

Like letters refer to like parts in each figure.

The nature of this invention relates to an improvement in that class of spring bed-bottoms in which the mattress is supported by a cloth-covered frame resting on a series of spiral springs; and it consists, first, in the peculiar S-shaped springs employed to support the upper or movable frame, and to guide it in its vertical movement; and, second, in the general construction and arrangement of the various parts, as more fully hereinafter set forth.

In the drawing, A represents a light wooden frame, having mortised therein transverse slats B, and is designed to rest in the frame of a bedstead, being supported by the slats thereof. C is a light wooden frame, of the same dimensions as the frame A. D are strips of spring-steel, bent to the form of a flattened letter S, and are secured in pairs to the ends and sides of the lower frame by a screw through the lower end of each. To the upper ends of these springs the upper frame is in like manner secured. E are conical spiral springs, inverted and secured to the slats B, their upper ends being tied and secured in position by

crossed cords F to the upper frame, to which is tacked the edges of a canvas or burlaps, G, covering the whole, and on which is laid a suitable mattress.

The action of the spiral springs in bed-bottoms of this description is too well understood to require explanation. The S-springs, from their peculiar construction, support the upper frame with great elasticity, yielding to any pressure applied thereto, while they prevent the swaying or lateral movement of said frame and consequent damage to the spiral springs. These S-springs possess greater elasticity and strength and give a more uniform reaction than any other form of spring known, as the strain is divided by the two curves in the length of each, and, unlike elliptic and C-springs, they do not spread longitudinally in compression.

The use of the S-springs in this bed-bottom enables me to dispense with a considerable number of spiral springs which I would otherwise be obliged to use, or to use lighter and cheaper springs, and there being no wires or metal rods to produce a parallel movement in the upper frame, as in other beds of like character, unlike them, my bed-bottom is noiseless when in use.

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

The bed-bottom described, wherein the frame A, slats B, upper frame C, springs D, conical spiral springs E, cords F, and cover G, are constructed, arranged, and operated substantially as and for the purpose set forth.

NELSON W. CLARK.

Witnesses:

H. F. EBERTS,
H. S. SPRAGUE.