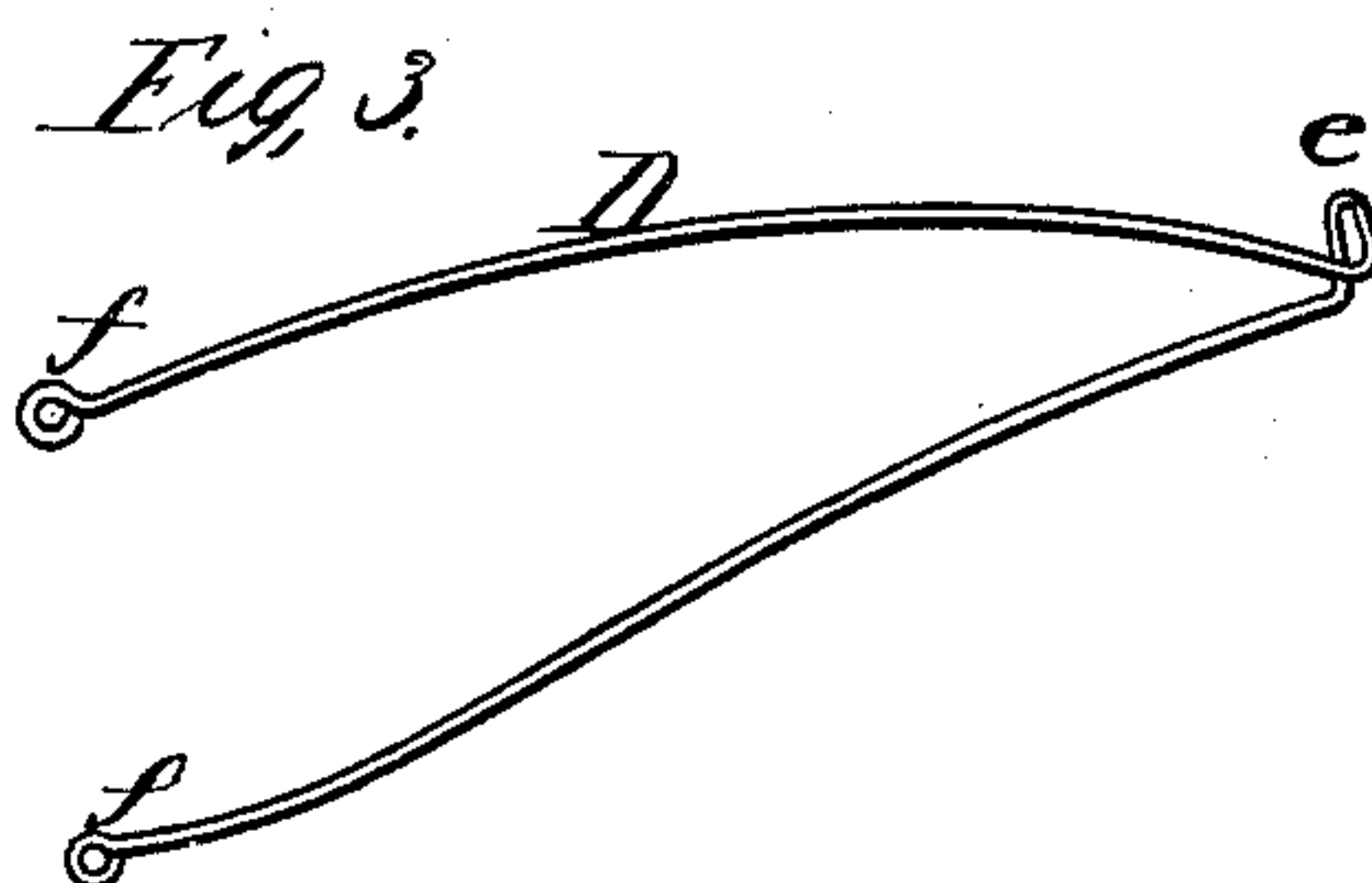
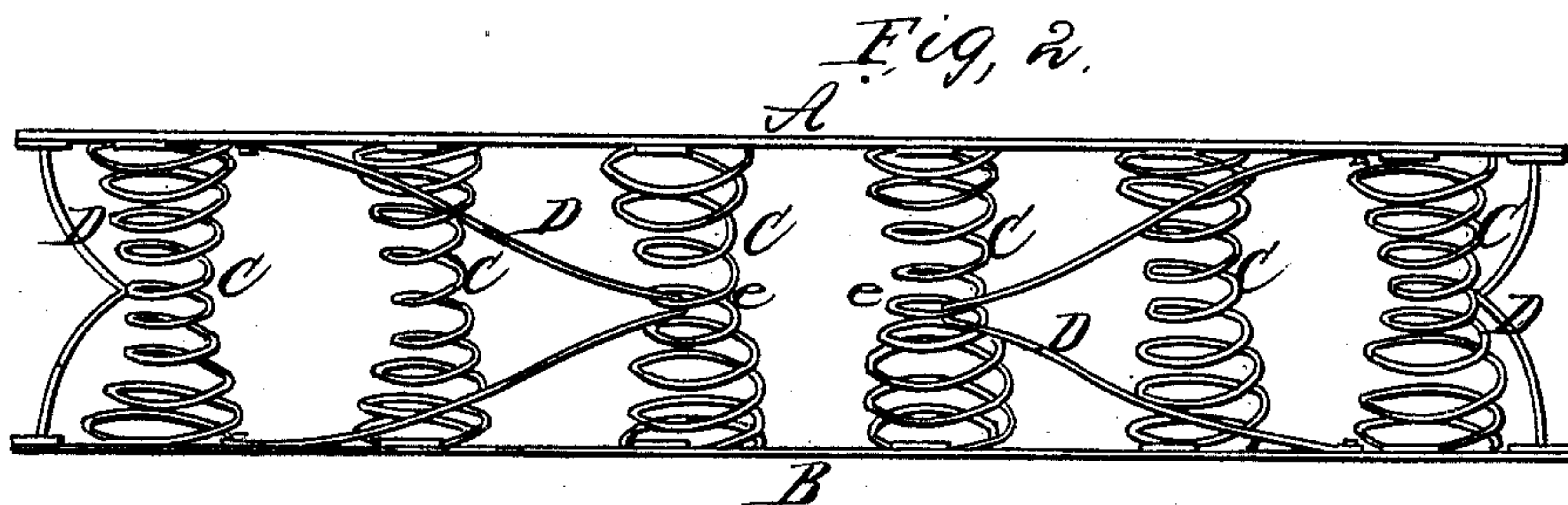
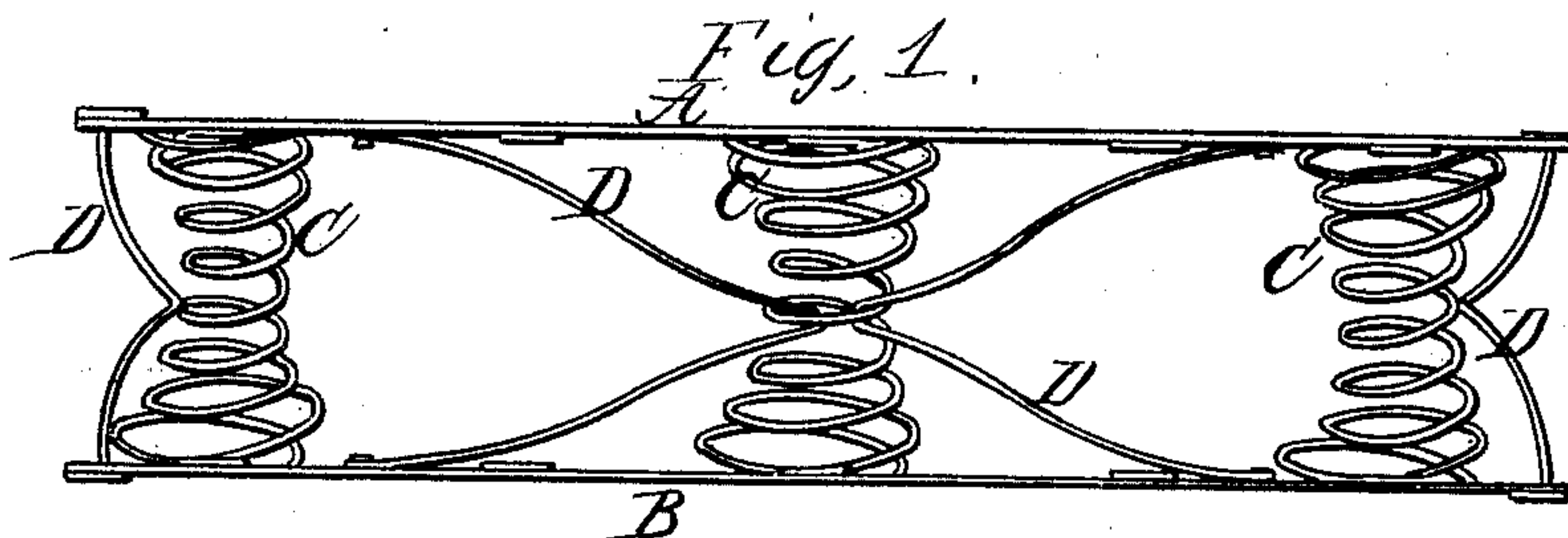


H. D. Bolt.

Spring Bed Brace.

Nº 90,229.

Patented May 18, 1869.



Witnesses,
J. S. Levin.
J. H. Upferman

Inventor,
H. D. Bolt
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Attorney

United States Patent Office.

HENRY D. BOLT, OF ELMIRA, NEW YORK.

Letters Patent No. 90,229, dated May 18, 1869.

IMPROVED BRACE FOR SPRING-BEDS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, HENRY D. BOLT, of Elmira, in the county of Chemung, and State of New York, have invented certain new and useful Improvements in Brace for Spring-Bed; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this application.

The object of my invention is to provide a means for preventing any oscillation in spring-mattresses, more especially those known as the "Kreighoff patent iron spring-mattress;" and consists in providing metallic stays, or braces, constructed and arranged as will be hereinafter more fully explained.

It is well known to the manufacturer, and trade generally, that in all spring-beds, where spiral springs are used between two frames, the upper frame, when weight is applied, will oscillate in various directions, rendering the bed unsteady, and, in time, impairing the springs, and rendering the whole structure loose and noisy. I am aware that many attempts have been made to overcome these objections in spring-mattresses, but, so far as I am able to judge, none have proved effectual.

To enable those skilled in the art to make and understand my invention, I will proceed to describe the same, referring by letters to the accompanying drawings, in which—

Figure 1 represents an end view of an iron spring-mattress, with my improved "brace" applied to the same;

Figure 2, a side view of the same; and

Figure 3, a perspective view of one of the braces.

Similar letters of reference denote like parts in the different figures.

A is the top frame, and B, the bottom frame, composed of sheet-metal bands, or strips, interwoven or crossed at right angles, the springs, C, being secured

at the points of intersection of the bands, and lying between and holding apart the two said frames.

D is the "stay," or brace, which may be made of any suitable material, (metal.) I prefer to make them of "spring-bed" wire. They are bent, as seen at *e*, fig. 3, and formed with eyes at the two ends, and are applied to the bed in the following manner:

The loop, or bend *e*, is made to embrace one coil of the spring, and is then clamped thereon, the ends being forced apart and secured by rivets, through the eyes, *f f*, to the top and bottom outside bands, or strips of the frames.

Of course the number is not limited, it only being observed that the loops *e* are always to be placed toward each other, the ends extending in the opposite direction.

It will now be seen, that when weight or pressure is applied to the top of the mattress, it will spring vertically, and any tendency to oscillate is effectually prevented, by the action of the braces, *i. e.*, resisting in opposite directions. The brace will bow, or spring, to accommodate itself to the altered distance between the point of contact with the frame and the spring to which it is clamped, which results from the contraction and expansion of the springs.

Having fully described the construction and operation of my improved brace, or "stay,"

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

The brace D, clamped to the coil of the spring, at *e*, and secured to the upper and lower frames, by means of rivets, or their equivalent, passing through the eyes *f f*, substantially as shown, for the purpose set forth.

In testimony whereof, I have hereunto set my hand and affixed my seal, this 10th day of April, A. D. 1869.

Witnesses:

H. D. BOLT. [L. S.]

WM. C. MCINTIRE,

T. S. GENIN.