

F. Tylee.

Bed Spring,

N^o 42,053.

Patented Mar. 22, 1864.

Fig. 2.

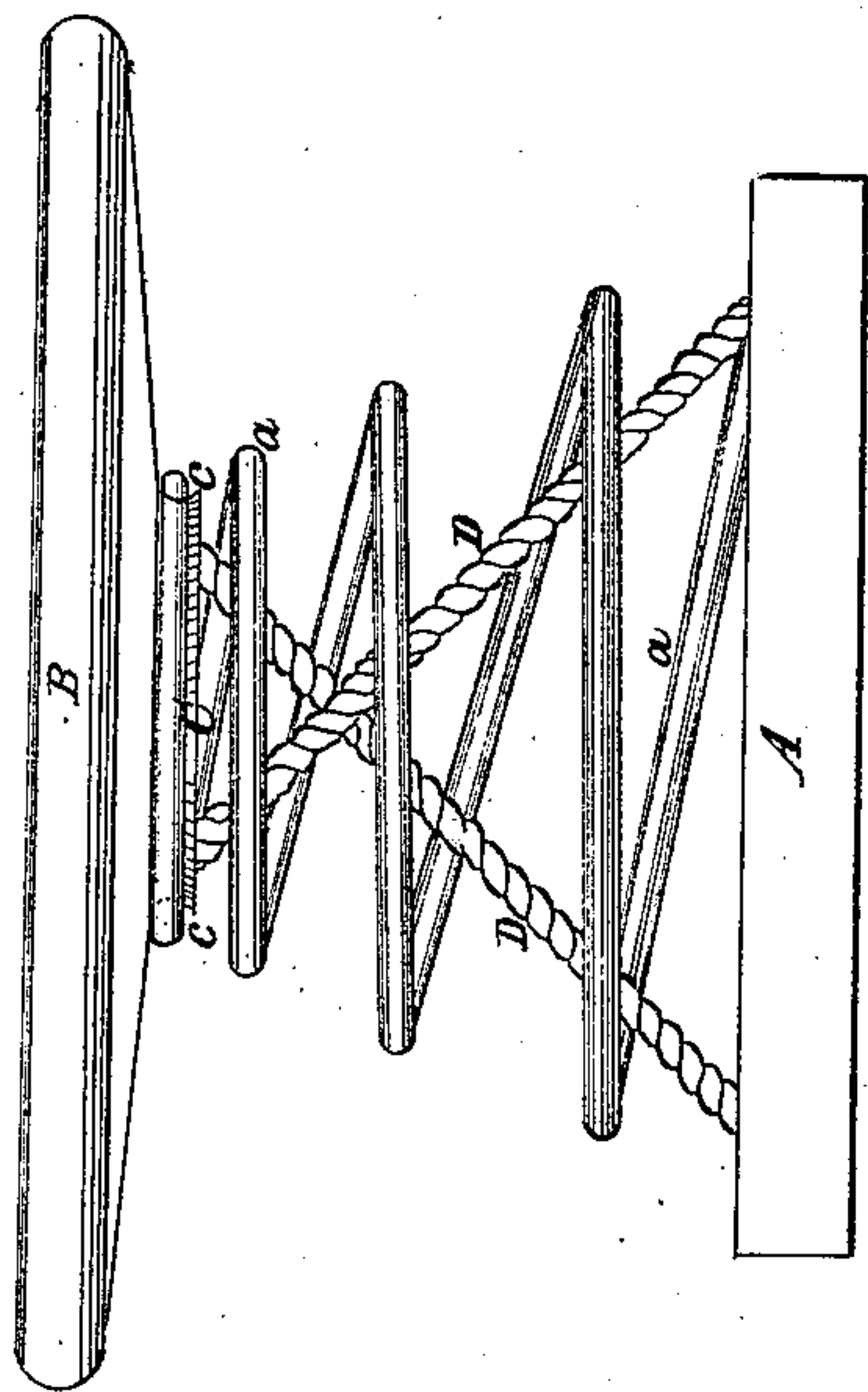


Fig. 3.

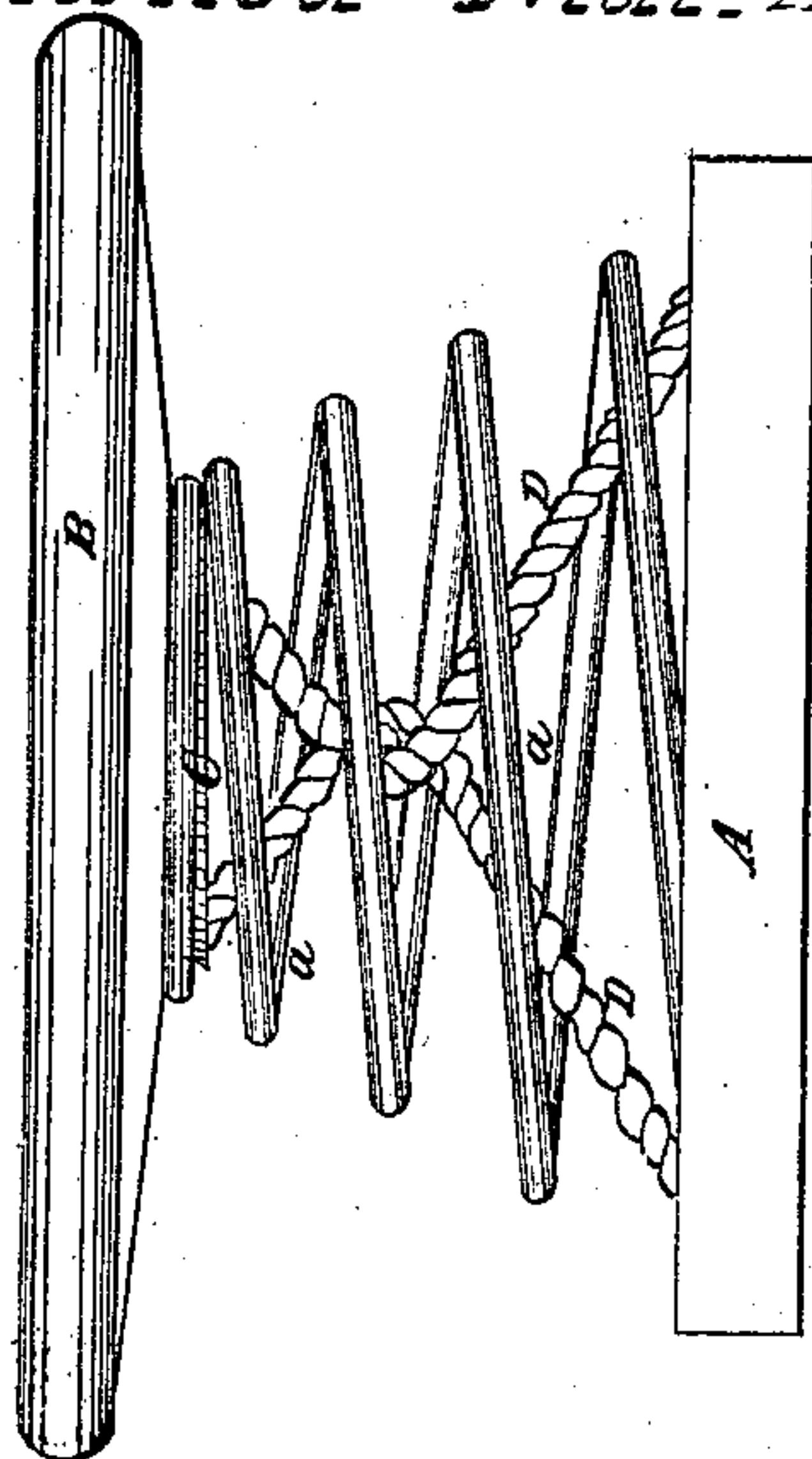


Fig. 1.

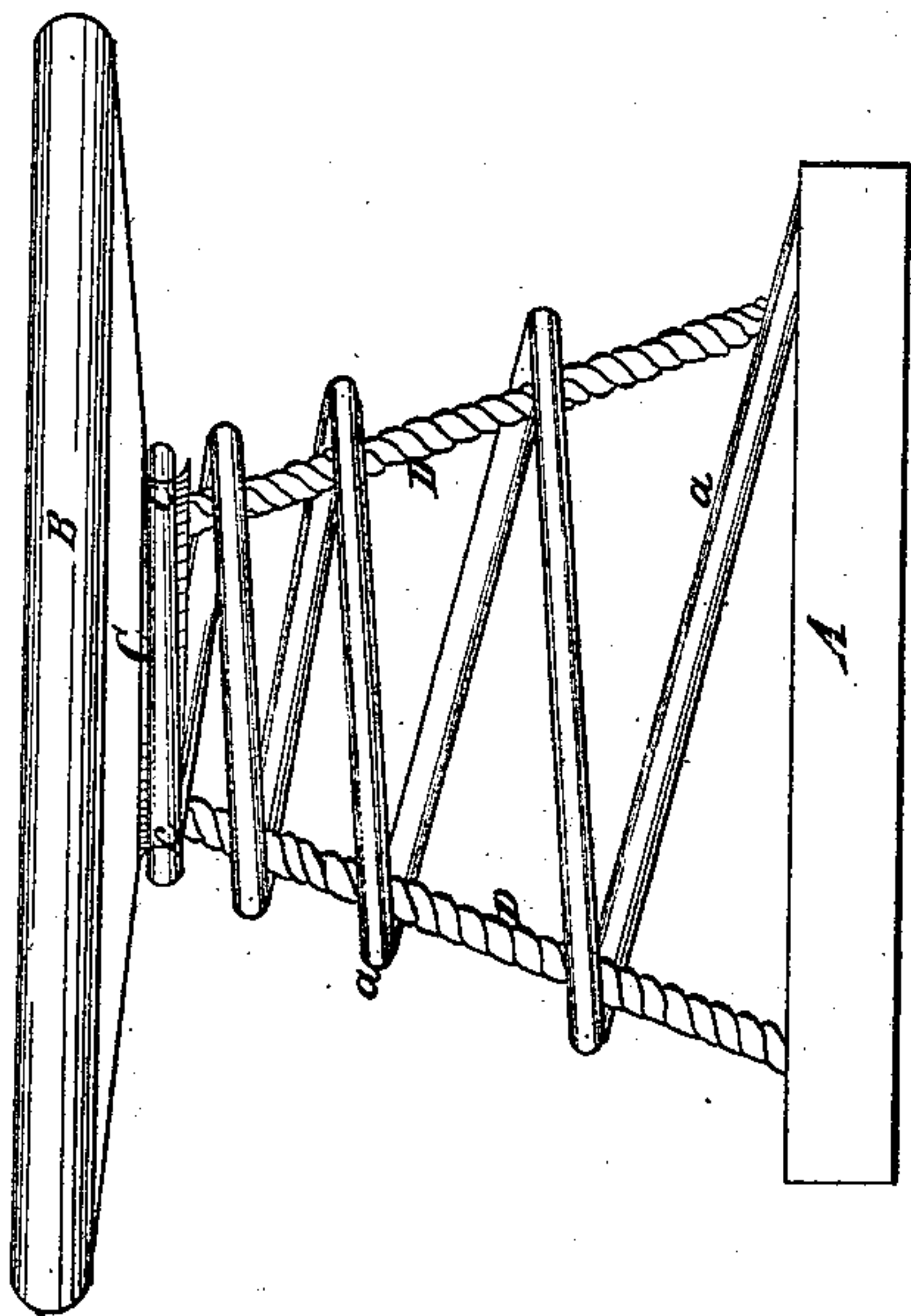
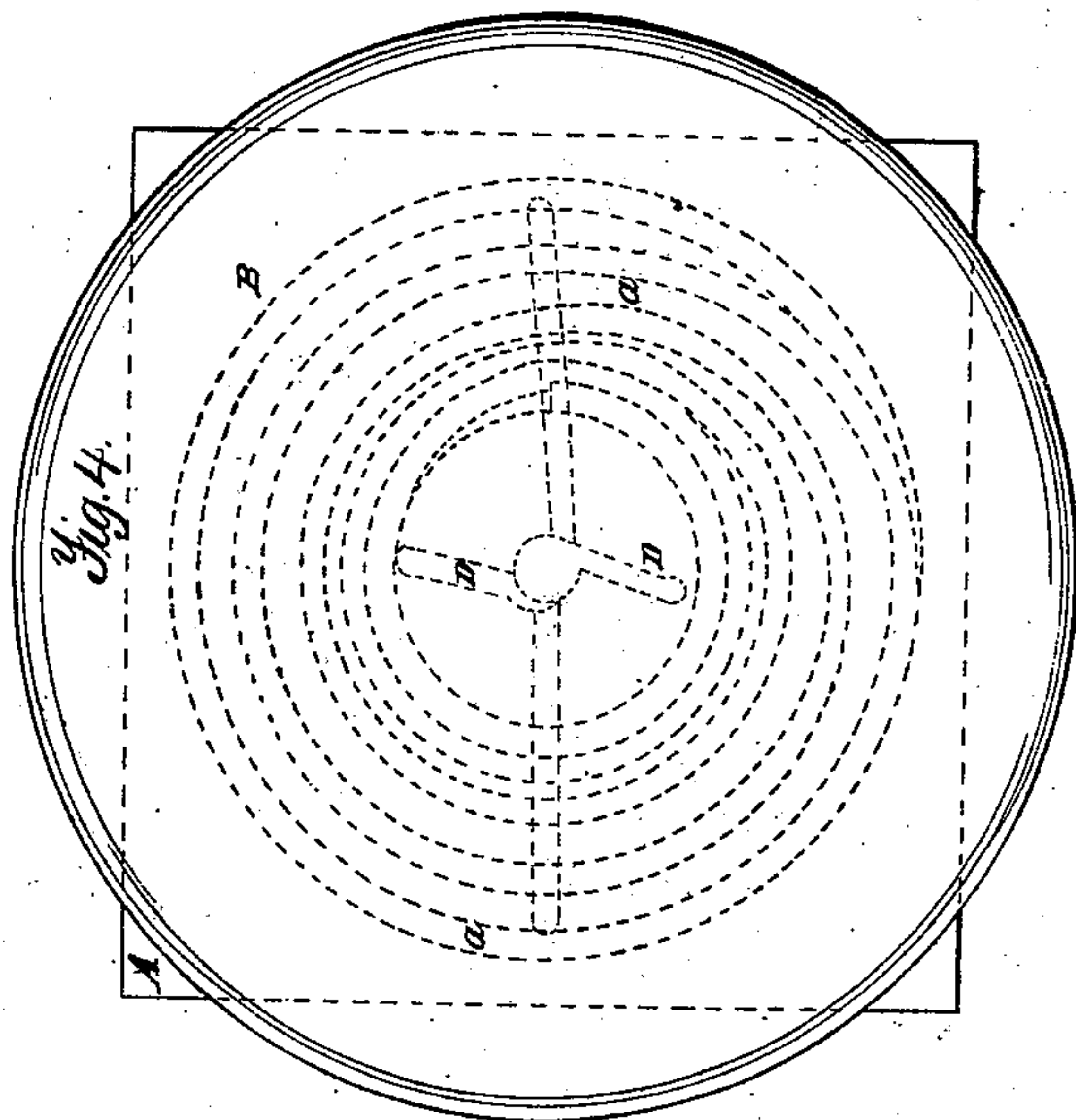


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

FELIX TYLEE, OF CLEVELAND, OHIO, ASSIGNOR TO HIMSELF AND
JOSIAH S. POND.

IMPROVED SPRING FOR FURNITURE.

Specification forming part of Letters Patent No. 42,053, dated March 22, 1864.

To all whom it may concern:

Be it known that I, FELIX TYLEE, of the city of Cleveland, in the county of Cuyahoga, in the State of Ohio, have invented new and useful improvements in the mode of attaching spiral springs and regulating the elasticity of the same for the purpose of beds, sofa and chair seats, and for other purposes; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents an elevation with the spring distended to its fullest capacity. Fig. 2 shows the same view with the spring slightly compressed by turning the disk and changing the position of the tension-cord. Fig. 3 is a similar view, illustrating the mode of compressing the spring by turning the cap or disk, thereby twisting the two cords together. Fig. 4 shows a plan or top view, the spring, &c., being shown in dotted lines.

The object of my invention is to secure spiral springs in their places in beds, sofas, and chairs, and other places where it is desirable to use them, so that they will admit of being compressed in any manner or form without becoming deranged or getting tangled and lop-sided; also, that the elasticity may be regulated and adjusted, so as to suit the variety of purposes for which spiral springs are used; and my invention consists in placing on the top of each spring a disk, with a turned projection on the under side, it having a groove in its edge, into which the top coil of the spring fits, so as to allow the disk to turn on it; also, in connecting the disk with the base or slot that the spring rests on by having two or more strong cords passing through within the circumference of the coil, so that by turning the disk the cords will be twisted together and compress the spring, and thus vary its elasticity to any degree desired.

To enable others skilled in the art to make and use my invention, I will proceed to describe it in detail, referring to the drawings and to the letters marked thereon.

I take the spiral wire spring *a*, and secure it on a block, *A*; or a series of the springs may

be placed on slats or boards to form a base in as near a proximity to each other as may be desirable. The springs best adapted for my purpose and the kind that make the best sofa and chair seats are the single-cone spiral, as shown in the drawings; but the common double-conical spring may be used, if desirable.

On the top of the spring *a*, I place a turned block or disk, *B*, it having a projection, *C*, with a circular groove, *c c*, in its edge, into which the top coil fits, so as to hold the disk *B* on the spring, while it admits of turning. Through the base-block *A*, or slats, are holes inside the circumference of the spring, through which strong cords *D D* extend up through the spring *a* and disk *B*, and, being securely fastened to the disk, the spring is in a position that by the turning of the disk the cords will twist around each other, and by so doing the spring is compressed and its elasticity varied. Thus, in the formation of spring seats or beds by the application of cords *D D* and the turning disk *B*, the springs are braced by the cords, so that they cannot turn over on their sides or get out of their places. When the double-conical spiral spring is used, it is desirable to have four of the tension-cords at the four cardinal points, or even more than four may be used, the effect being to keep the springs in their places without affecting the operation of compressing the springs or varying their elasticity.

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

The tension-cords *D D*, the same being secured to the base on which the spiral spring is supported, and extending up through so as to connect with the cap or disk *B*, which, by means of turning the disk and twisting the cords together, the elasticity of the spring is varied and regulated, in the manner and for the purposes herein specified.

FELIX TYLEE.

In presence of—

GEO. HESTER,
ROBERT CALDWELL.