

S. SMITH & J. H. GILL.

Spring-Beds.

No. 143,854.

Patented Oct. 21, 1873.

Fig. 1

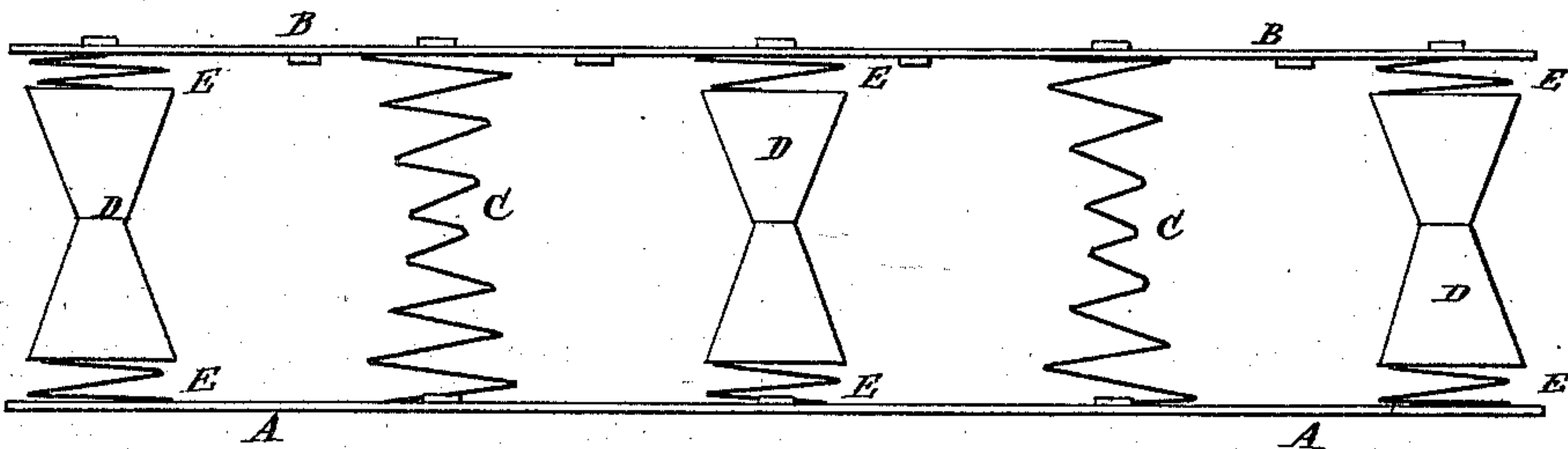
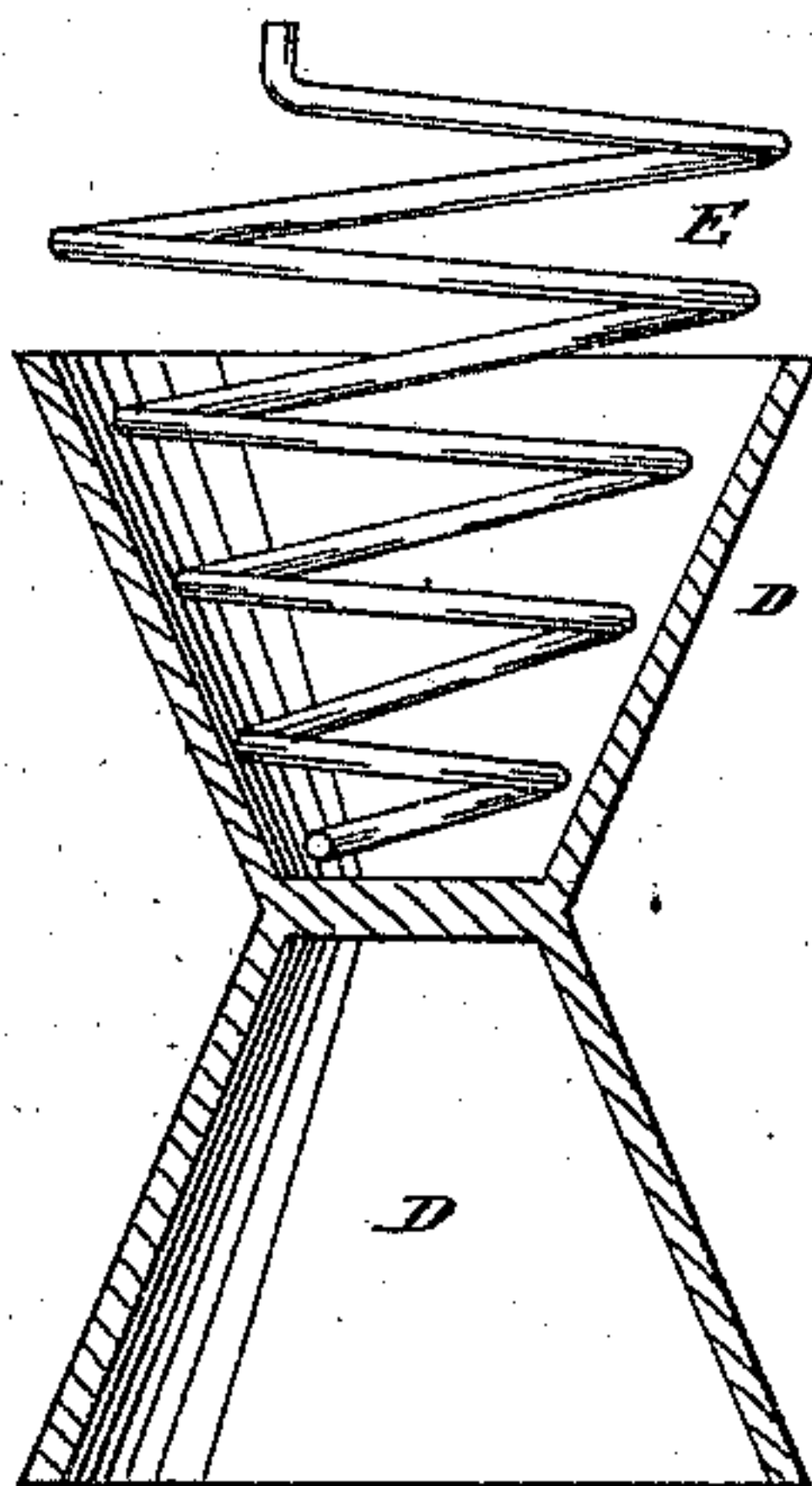


Fig. 2



Witnesses.

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# UNITED STATES PATENT OFFICE.

SAMUEL SMITH AND JOHN H. GILL, OF WILLIAMSBURG, NEW YORK.

## IMPROVEMENT IN SPRING-BEDS.

Specification forming part of Letters Patent No. **143,854**, dated October 21, 1873; application filed July 26, 1873.

*To all whom it may concern:*

Be it known that we, SAMUEL SMITH and JOHN H. GILL, of Williamsburg, in the county of Kings and State of New York, have invented a new and useful Improvement in Spring-Beds, of which the following is a specification:

Figure 1 is a side view of one of our improved spring-beds. Fig. 2 is a detail vertical section of one of our improved springs.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to improve the construction of spring-beds in such a way that the bed will not crush down at the side, and that the bed will be level when two persons of unequal weight may be lying upon it, so that the lighter person will not be all the time rolling down toward the heavier one. The invention consists in the cases and coiled conical springs, in combination with the bottom and top straps of a spring-bed, as hereinafter fully described.

A represents the ordinary bottom straps of the bed, which rest upon the slats of the bedstead. B represents the top straps, upon which the bedding rests. C represents ordinary coiled springs interposed between, and the ends of which are attached to, the bottom and top straps A B. In the outer row of springs, upon both sides of the bed, every other spring is an ordinary spring, C, and

every other spring is one of our improved springs. D are two cups, made in the form of truncated cones, placed with their smaller ends adjacent to each other, and with a partition in the neck or smallest parts. E are two springs coiled into conical form, so as to fit into the cups or case D, with their smaller ends resting against the opposite sides of the partition of said case, as shown in Fig. 2. The larger end of the lower spring E is attached to the bottom straps A, and the larger end of the upper spring E is attached to the top straps B.

By this construction any tendency to press the bed down or over at the side presses the sides of the springs E against the sides of the case D. This keeps the springs upright, so that the person upon each side of the bed will be supported by the springs of that side, and will lie level, whatever be the relative weight of the two persons.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The cases D and coiled conical springs E, in combination with the bottom and top straps A B of a spring-bed, substantially as herein shown and described.

SAMUEL SMITH.  
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Witnesses:

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