A. UNDERWOOD.
Spring-Bed.

No. 216,634. Patented June 17, 1879.

Fig. 1.

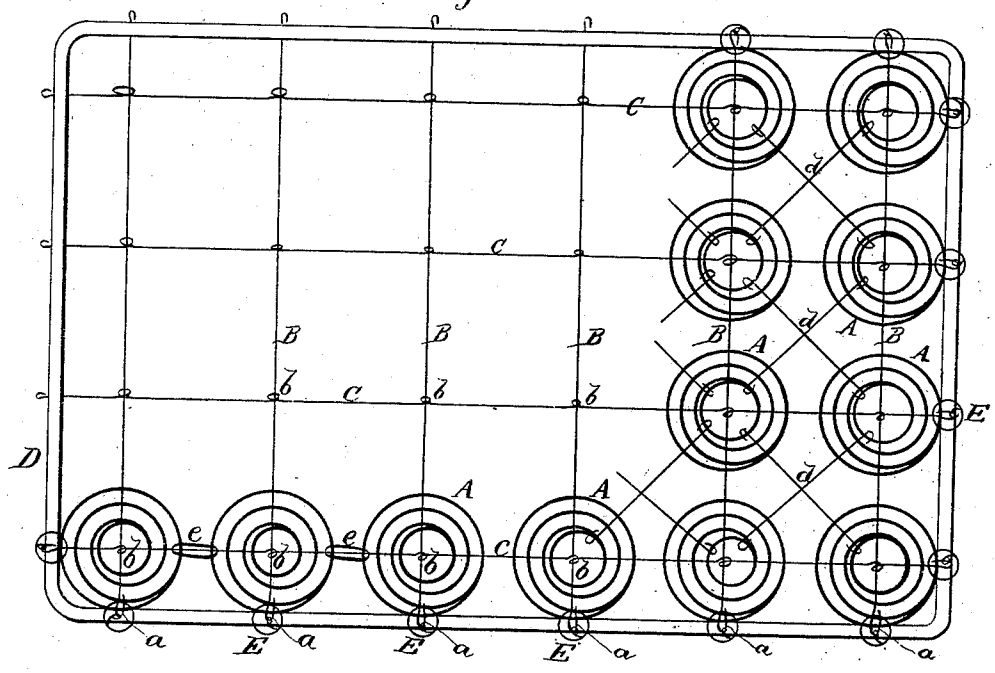
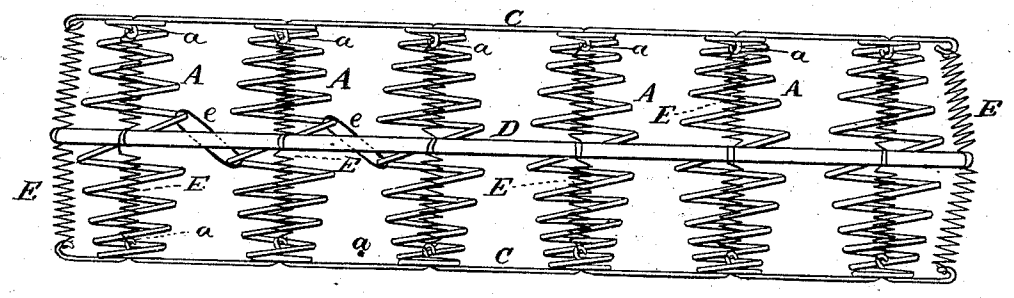


Fig. 2.



WITNESSES:
Henry N. Miller
C. Sedgwick

INVENTOR:
A. Underwood
BY Munn & Co
ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ANGELINE UNDERWOOD, OF CARROLLTON, ILLINOIS.

IMPROVEMENT IN SPRING-BEDS.

Specification forming part of Letters Patent No. **216,634**, dated June 17, 1879; application filed May 27, 1878.

To all whom it may concern:

Be it known that I, ANGELINE UNDERWOOD, of Carrollton, in the county of Greene, and State of Illinois, have invented a new and Improved Spring-Bed, of which the following is a specification.

Figure 1 is a plan view of my improved spring-bed. Fig. 2 is a side elevation.

Similar letters of reference indicate corresponding parts.

My invention relates to that class of spring bed-bottoms that are composed of spiral springs.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

Referring to the drawings, A A are spiral springs, having their largest diameter in the middle. These springs are tapered from the middle toward the ends, and have the two end coils at each end in contact or nearly so.

Transverse brace-rods B pass between the end coils of the springs in each transverse row at both top and bottom, and have upon their ends eyes *a*.

Longitudinal brace-rods C extend along the upper and lower ends of the springs at right angles to the transverse rods B, and have as many eyes *b* as there are transverse brace-rods B. These eyes encircle the rods B, and keep them a proper distance apart.

The springs A are further braced by short diagonal rods *d*, that are hooked into the end coils, and the middle coils of the springs are connected by links *e*.

A frame, D, composed of one or more rods of iron, surrounds the entire series of springs A, and is secured to the middle coil of each spring in the outer rows by the middle coil of a spiral spring, E, that surrounds both the rod forming the frame and the wire of the middle coil of the spring A. The ends of the springs E at the sides of the bed-bottom are connected with the eyes on the ends of the brace-rods B, and the ends of the springs E at the ends of the bed-bottom are connected with the ends of the longitudinal brace-rods C.

The bottom thus formed is elastic and durable, and will retain its form.

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

1. The combination of the spiral springs A, tapered from the middle to each end, and connected by links *e*, at their point of greatest diameter, with the transverse brace-rods B, the longitudinal eye-rods C, the diagonal hook-rods *d*, the frame D, and the coil-springs E, as shown and described.

2. The spiral springs A and the coil-springs E, combined with frame D and rods B and C, as and for the purpose shown.

ANGELINE UNDERWOOD.

Witnesses:
EDWARD BOOTH,
EDWIN S. HOWELL,