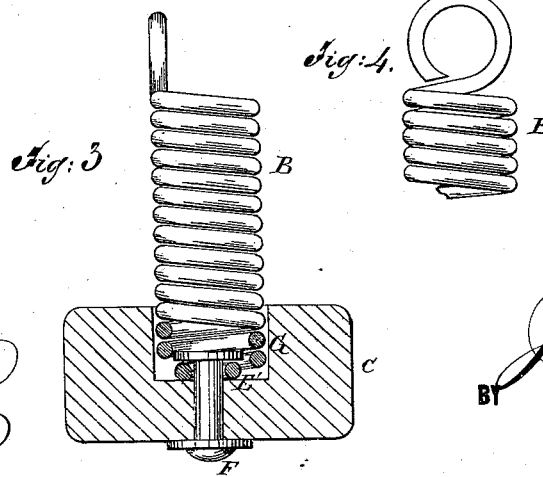
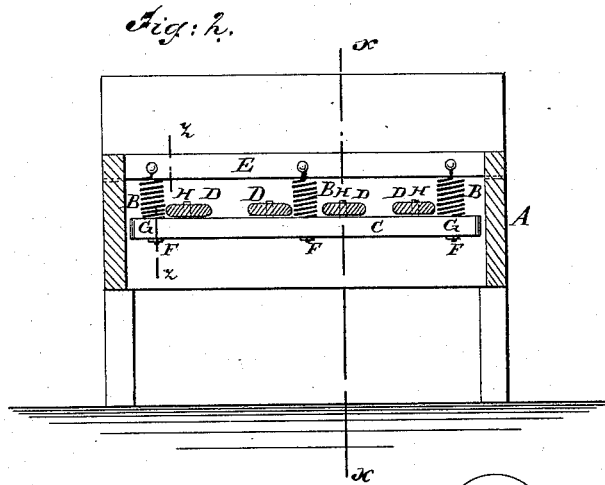
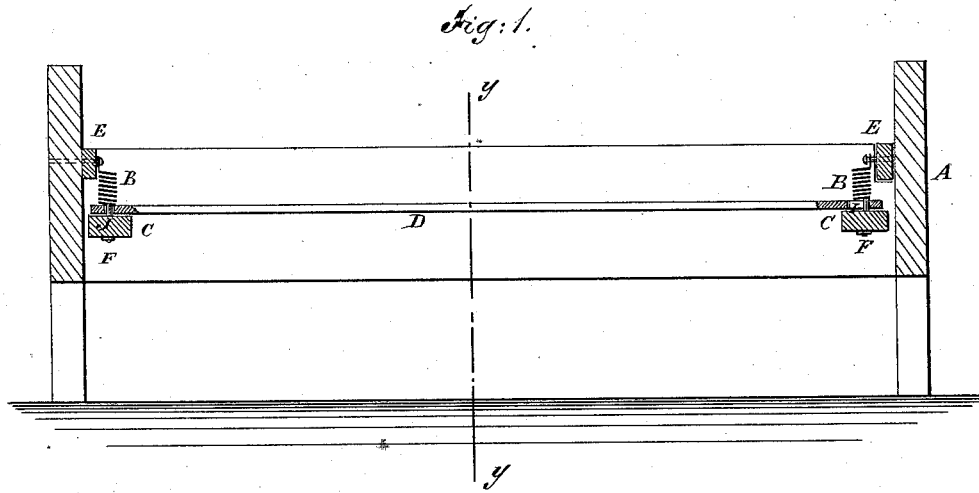


J. FOWLER.
Spring Bed-Bottom.

No. 163,370.

Patented May 18, 1875.



WITNESSES:

Chas. Nida
Sedgwick

INVENTOR:

J. Fowler
BY Munnell & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH FOWLER, OF NEW YORK, N. Y.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **163,370**, dated May 18, 1875; application filed March 13, 1875.

To all whom it may concern:

Be it known that I, JOSEPH FOWLER, of the city, county, and State of New York, have invented a new and useful Improvement in Suspended Spring Bed-Bottoms, of which the following is a specification:

The invention will be first fully described, and then pointed out in the claim.

Figure 1 is a vertical longitudinal section of Fig. 2 on the line *x x*. Fig. 2 is a cross-section of Fig. 1, on the line *y y*. Fig. 3 is a detail showing the manner of attaching the springs to the cross-bars, the same being shown full size. Fig. 4 is a detail of a portion of a full-sized spring, showing the manner of attaching the top to the bedstead.

Similar letters of reference indicate corresponding parts.

A represents the bedstead. B are the spiral springs. C are the cross-bars, and D are the slats. The springs are attached to the bedstead by means of screws or rivets, which pass through the cleats E, and to the cross-bars C by means of the contracted coils E' of springs, as seen in Fig. 3, which allows the rivet or bolt F to take hold of the coils and draw the spring downward. G is a cavity in the bar, of any desired depth, to receive the bottom end of the spring. F' may be a rivet or a bolt, as may be convenient, the head of which rests on the lower contracted coil E' of the spring. The bed is suspended on the springs in this

manner, and the bolts or rivets form a most durable and substantial connection. The cavity G may be dispensed with, but the spring is better secured in place by allowing it to enter one, as seen in the drawing. The slats D are attached to the bars by means of pins H in the latter, and slots I, and holes J in the slats, as seen in Fig. 1. These slots allow of the unequal expansion of the springs. The slats are just slipped on loosely, but are effectually kept in place by the pins H.

In a patent granted to myself and John R. Dewar, dated January 26, 1875, No. 159,086, it is found that the manner of attaching the springs to the cross-bar is not substantial, and that the manner of securing the slats to the bars is complicated and expensive. The present invention is intended to remedy these defects.

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

In combination with a suspended spring bed-bottom, the contracted coil E' of the springs, and the bolt or rivet F, applied to the cross-rails, substantially as shown and described.

JOSEPH FOWLER.

Witnesses:

T. B. MOSHER,
ALEX. F. ROBERTS.