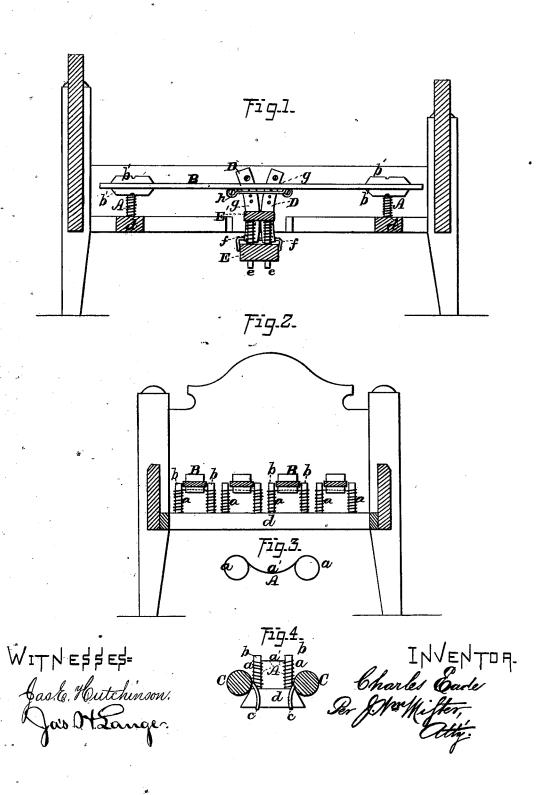
C. EADE.
BED-BOTTOM.

No. 190,749.

Patented May 15, 1877.



UNITED STATES PATENT OFFICE.

CHARLES EADE, OF HONESDALE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO H. J. TARBLE, OF SAME PLACE.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. 190,749, dated May 15, 1877; application filed March 17, 1877.

To all whom it may concern:

Be it known that I, CHARLES EADE, of Honesdale, in the county of Wayne and State of Pennsylvania, have invented certain new and useful Improvements in Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which-

Figure 1 is a longitudinal section of my improved bed bottom. Fig. 2 is a transverse section thereof. Fig. 3 is a detached view of one of the springs; and Fig. 4 is a sectional view, on a reduced scale, of a modification of

my invention.

Corresponding parts in the several figures

are denoted by like letters.

This invention relates to a certain improvement in bed-bottoms; and it consists of a spring composed of two tubular wire coils, each surrounding a permanent pin or stud of the bed, and having their uniting-wire supporting a slat; and, secondly, of a suspended yielding support or truss, disposed beneath, and about midway of the length of, the slats, substantially as hereinafter more fully set forth.

In the annexed drawing, A refers to a spring, of which there are two to each slat. The spring A consists of two tubular coils of wire, a a, united together by a wire, a'. Permanently secured to cross-pieces d d of the bed are pins or studs b b, arranged in pairs, the object of which will appear hereinafter. Around these pins or studs are placed the tubular coils of the springs, their uniting-wires spanning the spaces between each pair of studs or pins and supporting the slats. B B are the slats, which are provided at their ends with blocks b' b', having grooves to receive the uniting-wires a a' of the springs, upon which they rest. The blocks b' $\bar{b'}$ are grooved upon both sides, to permit of the slats being reversed.

In Fig. 4, C C represent the side rails of an ordinary cord - bedstead, on a reduced scale,

or loops cc, a cross-piece, d, a similar piece, in practice, being suspended, in like manner, from the other ends of said rails. The piece d is also represented on a reduced scale, and provided with pins b b, having a spring, A, with its coils $a \hat{a}$ encircling the said pins, and connected together by a wire, a', upon which the slat is supported at one end, its opposite end being supported in like manner.

Suspended from the side rails of the bed stead, by means of straps D D beneath, and about midway the length of, the slats B B, is a support or truss. This support or truss consists of two parallel bars or boards, E E', one of which, E', is provided with pins or studs ee, projecting downwardly through holes in the other or lower bar, E. The pins or studs e e are also encircled by springs $\tilde{f}f$, similarly constructed to those above described, the object of which is to render the upper board or bar E' yielding.

From the above it will be seen that the slate will be supported at a point between their bearings upon the springs, and be prevented from careening from the inequality of the weight of the occupant of the bed, while at the same time they will be possessed of greater resiliency and strength. It will also be seen that, by reason of the expansive force of the springs ff of the truss or support, the slats will also be prevented from sinking or bowing to any great extent, and thus add to the comfort and ease of the occupant, and the appearance of the bed.

The straps D D of the truss or support E E' are, preferably, connected thereto by staples, and are provided with perforations or holes g g, to permit of their vertical adjustment in regulating the upward pressure of the

springs ff and their board E' upon the slats. A staple, h, may be fastened to each side of the rails of the bedstead for the straps D D

to pass through.

The following additional advantages can be adduced in favor of my invention: inability of the springs to leave their places, consequently less liability to breakage, the slipping therefrom of the slats avoided, and the occupant of the bed relieved of that from which is suspended, by means of staples | annoyance; ease and facility with which the 2 190,749

springs can be removed for renewal, or taking the bed apart, and readjusted when the bed is again put up. The spring being doubled, and having a bearing upon either side of the slats, they are prevented from tilting or capsizing.

This improvement is adapted for use in connection with the ordinary bedstead, and permits of the mattress, &c., being so disposed as to not stand above the bed-rail—a deside-

ratum in this class of furniture.

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

1. In a bed-bottom, the spring A, consisting of two tubular wire coils, a a, in combination with, and encircling, pins or study b b, and having their uniting wire a' supporting the slats B B, substantially as and for the purpose set forth.

2. In combination with the spring A, having the wire coils a a, encircling pins or studs b b, and connected together by a wire, a', the slat B, having blocks b' b', provided with grooves to receive said wire a', substantially as and for the purpose set forth.

3. The truss or support, consisting of the parallel bars or boards E E', one provided with pins or studs e e, entering apertures in the other, and encircled by springs ff, and the whole suspended beneath the slats of the bed-bottom, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

CHARLES EADE.

Witnesses:

H. J. TARBLE, I. REHBEIN.