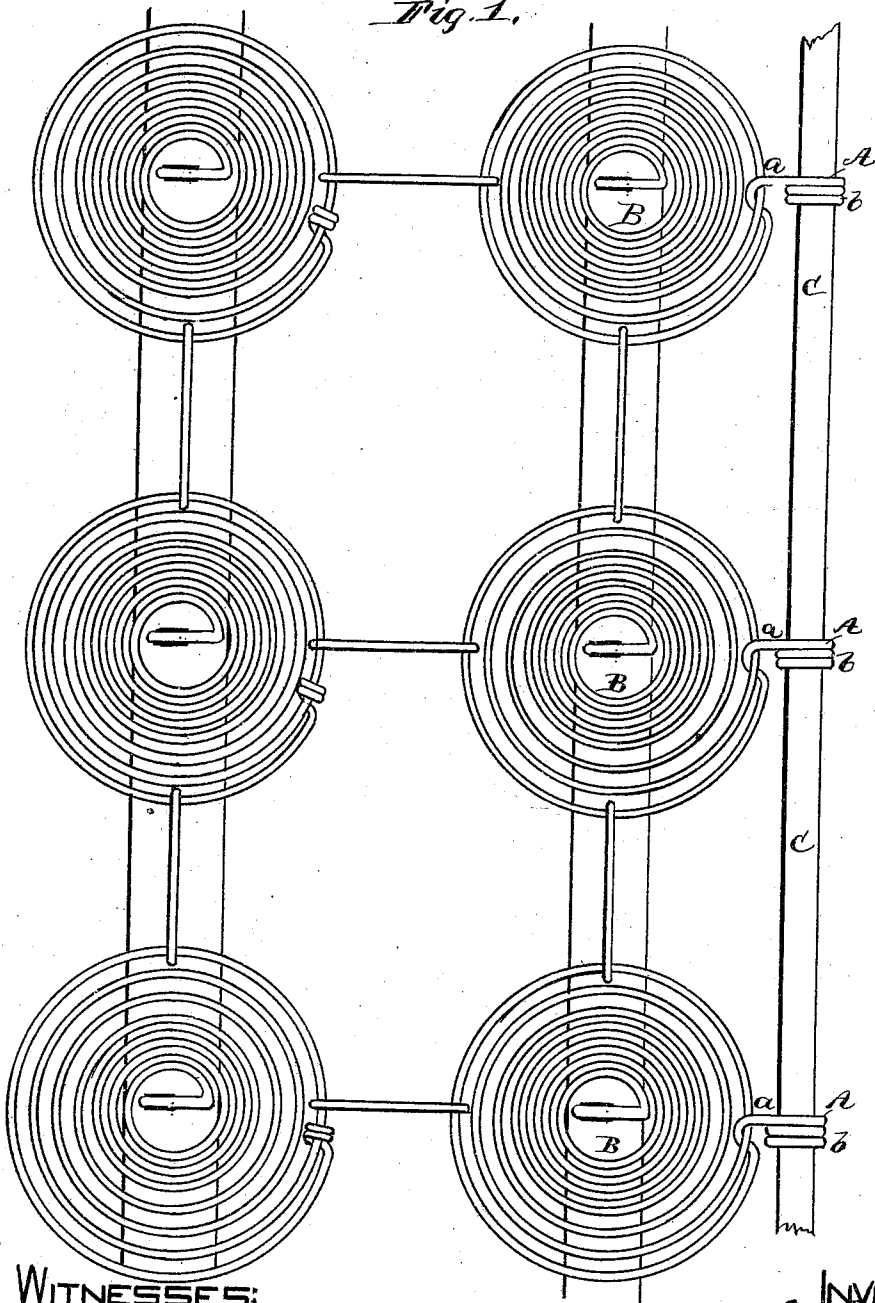


P. C. HARD.
BED-BOTTOM.

No. 174,236.

Patented Feb. 29, 1876.

Fig. 1.



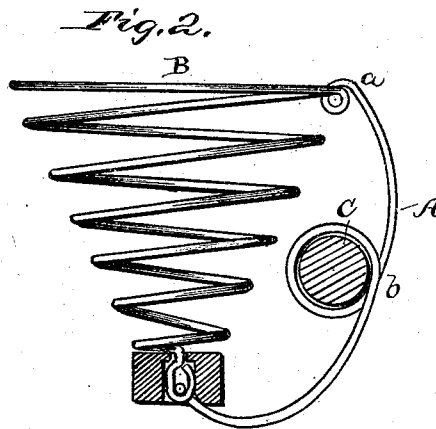
WITNESSES:
Jas. F. Duhamel,
Thomas. Byrne.

INVENTOR:
P. C. Hard.
PER
H. J. Abbot.
ATTORNEY.

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UNITED STATES PATENT OFFICE.

PULASKI C. HARD, OF WADSWORTH, OHIO.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **174,236**, dated February 29, 1876; application filed January 6, 1876.

To all whom it may concern:

Be it known that I, PULASKI C. HARD, of Wadsworth, in the county of Medina and State of Ohio, have invented certain new and useful Improvements in Bed-Bottoms, of which the following is a specification:

This invention is an improvement upon the bed-bottom for which Letters Patent No. 6,436, were re-issued to me on the 18th day of May, 1875; and consists of the parts described, as follows:

In the drawing, forming part of this specification—Figure 1 shows a top view of a section of a bed-bottom having my invention. Fig. 2 is a side view of spring, with slat broken away to show the lower part of spring.

A is a spring-brace, which, if desired, may be formed as a continuation of the wire of which the spring B is composed, which spring B may be either a single or double cone. The said spring-brace A, after making a loop at *a*, passes down, making a coil of two or three turns at about the middle of its length, as seen at *b*, whence it continues to the lower end of the spring, and is there secured to said lower end by being turned into an offset either above or below the slat to which the spring is secured. The said offset formed on the lower end of the brace A is not rigidly secured, but is allowed room to rise and fall with the elevation or depression of the springs B, by which arrangement the braces A are prevented from bulging outwardly at their sides when the springs B are depressed. Through the coils *b*, a rod, C, is passed, which extends from near the head to near the foot of the bedstead on each side. By the use of these spring-braces A and the rods

C at the sides of the bedstead, as clearly seen in the drawing, the springs to which the said braces are attached are made more rigid and strong, while still preserving sufficient elasticity, and these outer rows of springs, thus acting as a barrier for the inner springs, cause the bed to become more yielding in the center and less yielding at the sides, thus making a very strong, durable, and comfortable bed-bottom. If preferred, the braces A may be used without the rods C, and they will still perform the functions designed for them; but the use of the rods is considered decidedly advantageous.

Having thus fully described this improvement in bed-bottoms, as of my invention, I claim—

1. In combination with a spirally-coiled spring, forming one of a series of springs for supporting a bed-bottom, a spring-brace, A, said brace being centrally coiled and attached to the extremities of said spring, the whole operating substantially in the manner hereinbefore described, for the purposes set forth.

2. In combination with a series of spirally-coiled springs, forming an outer row of springs in a bed-bottom, a series of spring-braces, A, and a rod, C, passing through the central coils of said braces, all in the manner substantially as hereinbefore described, for the purposes set forth.

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

PULASKI C. HARD.

Witnesses:

THOS. W. BROWNING,
JOHN A. CLARK.