No. 883,551. PATENTED MAR. 31, 1908.

W. W. LYTLE.

BED SPRING.

APPLICATION FILED APR. 3, 1907.

Fig. 1

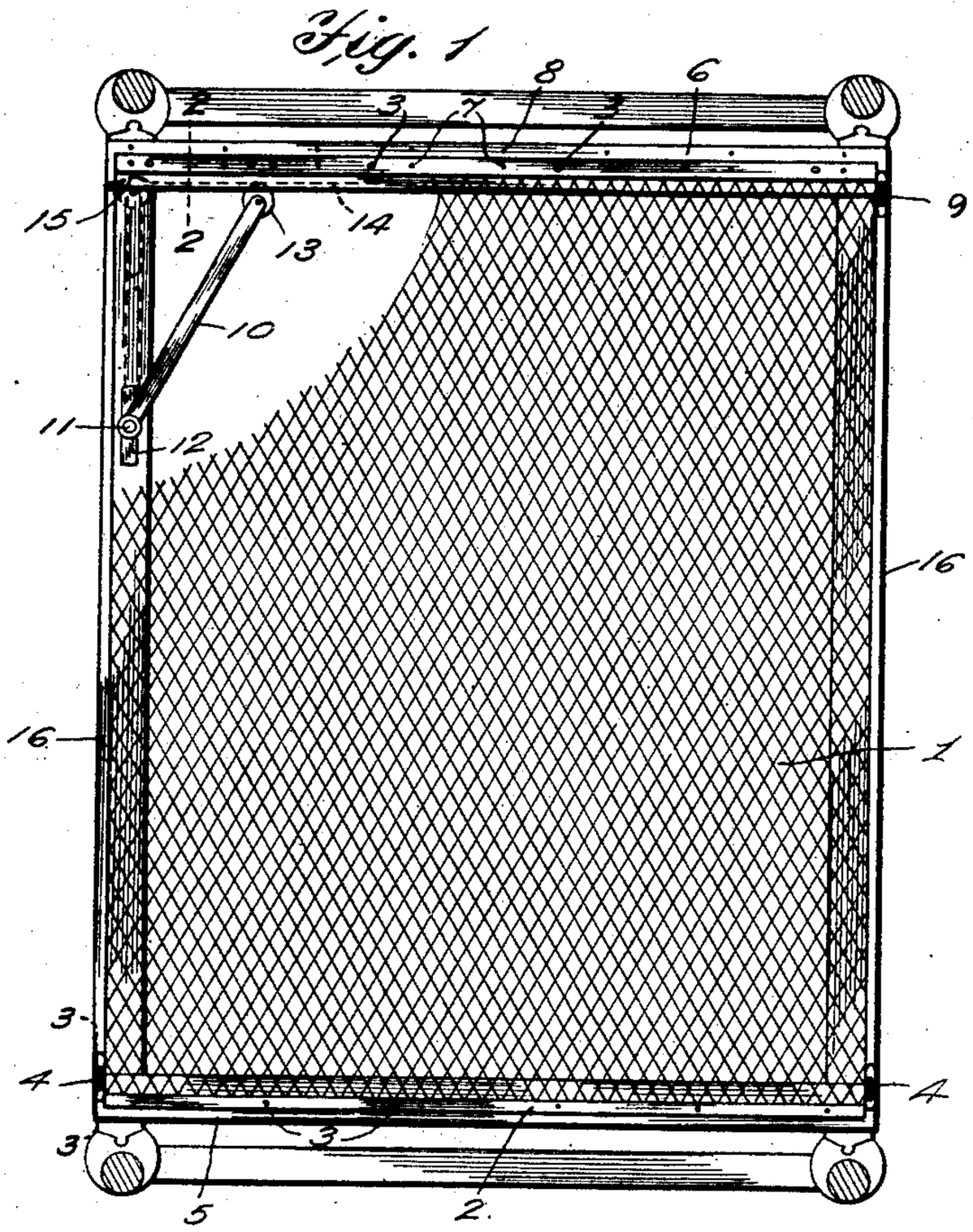


Fig. 2

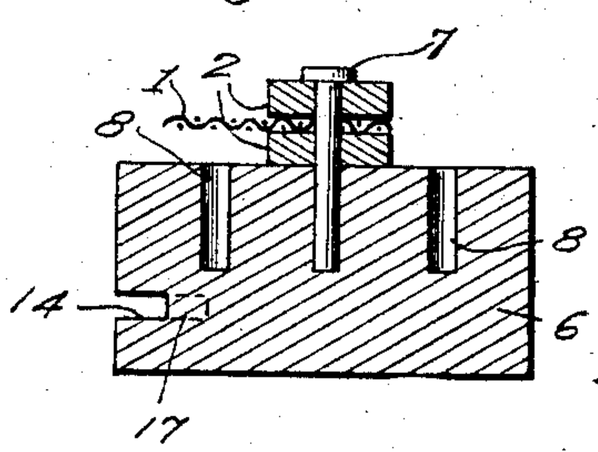
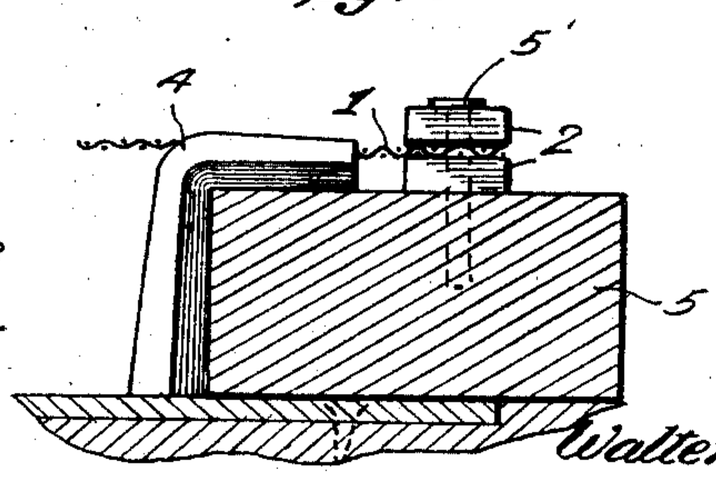


Fig. 3



Witnesses
R. C. Claflin
C. Broadway

Inventor
Walter W. Lytle

By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

WALTER W. LYTLE, OF ST. LOUIS, MISSOURI.

BED-SPRING.

No. 883,551. Specification of Letters Patent. Patented March 31, 1908.

Application filed April 3, 1907. Serial No. 366,186.

To all whom it may concern:

Be it known that I, WALTER W. LYTLE, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented new and useful Improvements in Bed-Springs, of which the following is a specification.

This invention relates to bed-springs of that type comprising a flat sheet or web of interlaced wire that is stretched taut for use.

The invention has for one of its objects to improve the construction of bed springs so as to be comparatively easy and inexpensive to manufacture, convenient to tighten, and comfortable.

A further object of the invention is the provision of bed springs comprising an interwoven sheet or web of steel wire which is provided with end clamping pieces that are adapted to be secured to a bedstead and stretched by suitable stretching means forming an attachment to the bed, the usual side members being dispensed with so that the bed springs can be conveniently handled when taking the bed apart, since the springs can be wound into a roll.

Another object of the invention is the provision of stretching members attached to the side rails of the bed and adapted to operate on one of the end pieces or clamps for stretching the springs.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one of the embodiments of the invention, Figure 1 is a horizontal section of a bed showing the springs applied thereto, a portion of the latter being broken away. Fig. 2 is a vertical section on the line 2—2, Fig. 1. Fig. 3 is a similar view on line 3—3, Fig. 1.

Similar reference characters are employed to designate corresponding parts throughout the several views.

Referring to the drawing, 1 designates the body of the springs which may be of interlaced woven wire or other suitably formed web of any desired character and having each end bound by a pair of metal strips 2 riveted at intervals, as indicated at 3, so as to hold the body 1 between them. On the side rails of the bed at the foot are hooks 4 that engage the ends of a rail 5 to which the latter end of the body 1 is fastened in any suitable manner, as by pins 5′ passing through the strips 2 and entering the rail, as shown in Fig. 3. The binding strips at the head of the springs are adapted to be adjustably secured to the head rail 6 by means of pins 7 arranged at intervals and extending through apertures in the binding strips 2 and projecting into the spaced openings 8 in the head rail 6, as clearly shown in Fig. 2. One end of the head rail 6 is adapted to engage under a hook 9 on one of the side rails of the bed, while the opposite end of the rail is held in place by a stretching device.

The stretching device comprises a lever 10 fulcrumed at 11 on a bracket 12 secured to one of the side rails of the bed, and the free end of the lever has a roller 13 that is movable in a groove 14 on the top rail, the groove having at its outer end a depression 15 into which the roller is adapted to seat when the stretching element or lever 10 is in normal or dotted line position, Fig. 1. This depression is located so that the lever will be arranged directly in line of draft on the springs or body 1, for holding the lever automatically in place. The hooks for the foot rail and one end of the top rail are attachments which are bolted or otherwise suitably secured to the bed frame so that a bed frame can be readily fitted with springs of the character described.

In practice, the bed springs are applied to the bed by hooking the ends of the foot rail under the hooks on the side members 16 of the bed frame, and one end of the head rail engaged under its hook 9. The lever 10 is then moved from the full position shown in Fig. 1 to the dotted line position, thereby causing the top rail to draw the springs taut by the lever action of the rail 6 about the hook 9 as a center, thus the springs will be drawn tightly and so held. If, after use, the springs should become loosened, it is merely necessary to throw the lever inwardly and then by removing the pins 7 and inserting them in another set of openings in the top rail, the slack of the body of the springs can be taken out and then stretched by restoring the lever 10 to its normal position. When it is desired to take the bed apart, the springs can be readily unfastened and wound into a compact roll for moving or storing purposes, since there are no side rails to interfere. Furthermore, it will be seen that the springs

are of light and substantial construction and that they can be tightened to any desired degree.

Having thus described the invention, what I claim is:—

1. The combination of a bed having side bars, with a spring fabric, means for attaching one end of the spring fabric to corresponding ends of the side bars, a rigid member attached to the other end of the fabric, means for attaching one end of the member to one of the side bars, and a lever attached to the other side bar and engaging the opposite end of the member for stretching the fabric.

2. The combination of a bed including side bars, upwardly extending members adjacent the ends of one bar, an upwardly extending member adjacent one of the ends of the other bar, and an upright pivot intermediate the ends of the second bar, with a spring fabric, rigid members on the ends of the fabric adapted to engage said members for stretching the fabric, and a lever mounted on the pivot and arranged to engage one of the rigid members for drawing the fabric taut.

3. The combination of a bed, and fastening devices at three corners thereof, a spring bed bottom having three corners detachably secured to the fastening, and a lever fulcrumed on the bed and adapted to engage the fourth corner of the bottom for stretching the latter.

4. The combination of a bed, and fastenings at three corners thereof, with a spring fabric, stiffening strips at the ends thereof, end rails secured to the ends of the fabric, one rail having a longitudinal groove provided with a depression adjacent one end, a lever fulcrumed on the bed at a point directly in line with the depression of the groove and adapted normally to extend parallel with the line of draft of fabric when stretched, and a roller on the end of the lever adapted to run in the groove and enter the said depression.

In testimony whereof, I affix my signature in presence of two witnesses.

WALTER W. LYTLE.

Witnesses:
J. A. SMYTH,
L. P. MATTINGLY.