

(No Model.)

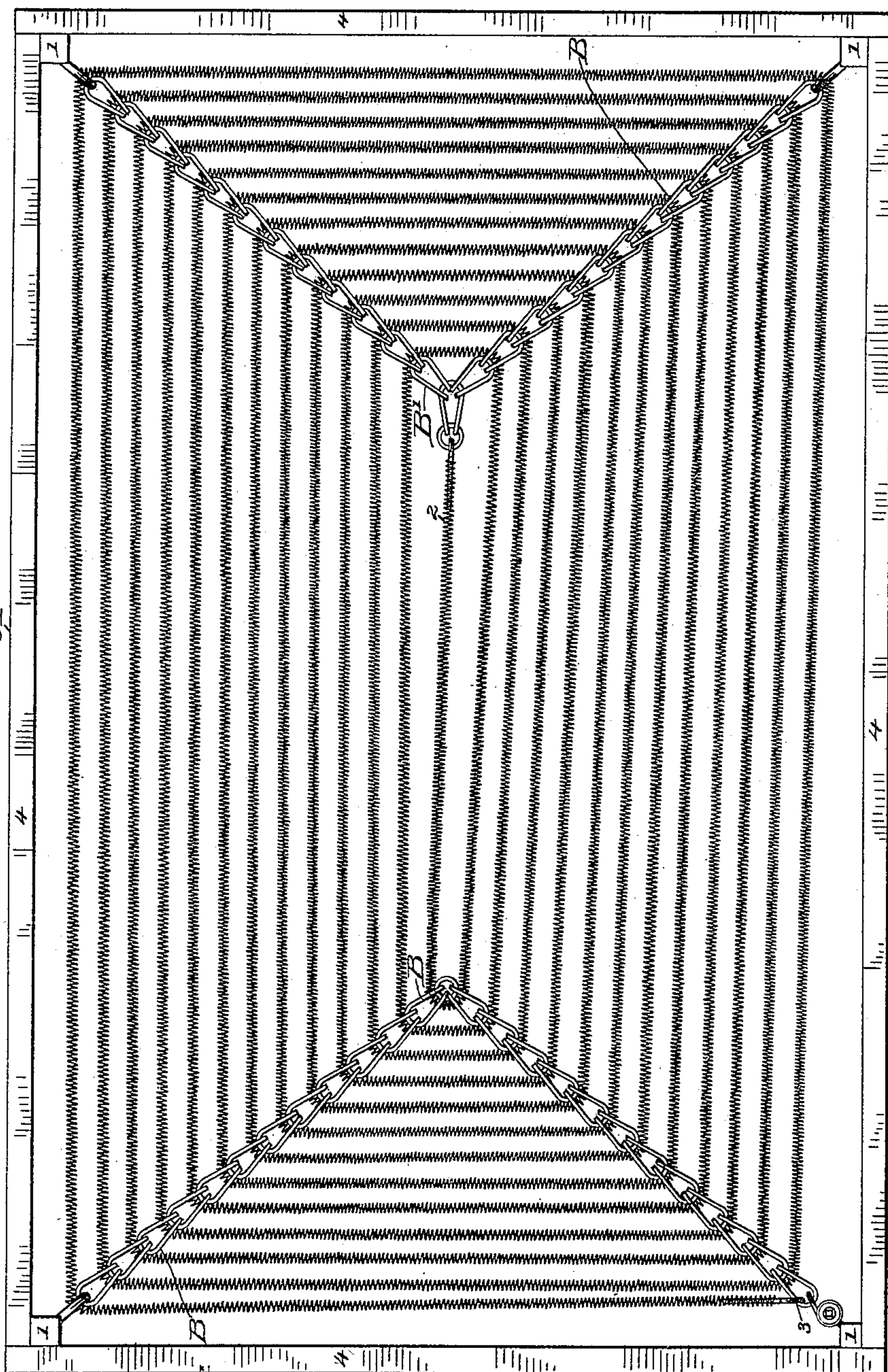
2 Sheets—Sheet 1.

G. B. SMITH.
SPRING BED BOTTOM.

No. 438,956.

Patented Oct. 21, 1890.

Fig. 1.



WITNESSES

Wm. Messer
B. H. Sommers

INVENTOR

Gary B. Smith

by *A. G. Haylin*
Attorney.

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Fig. 3.

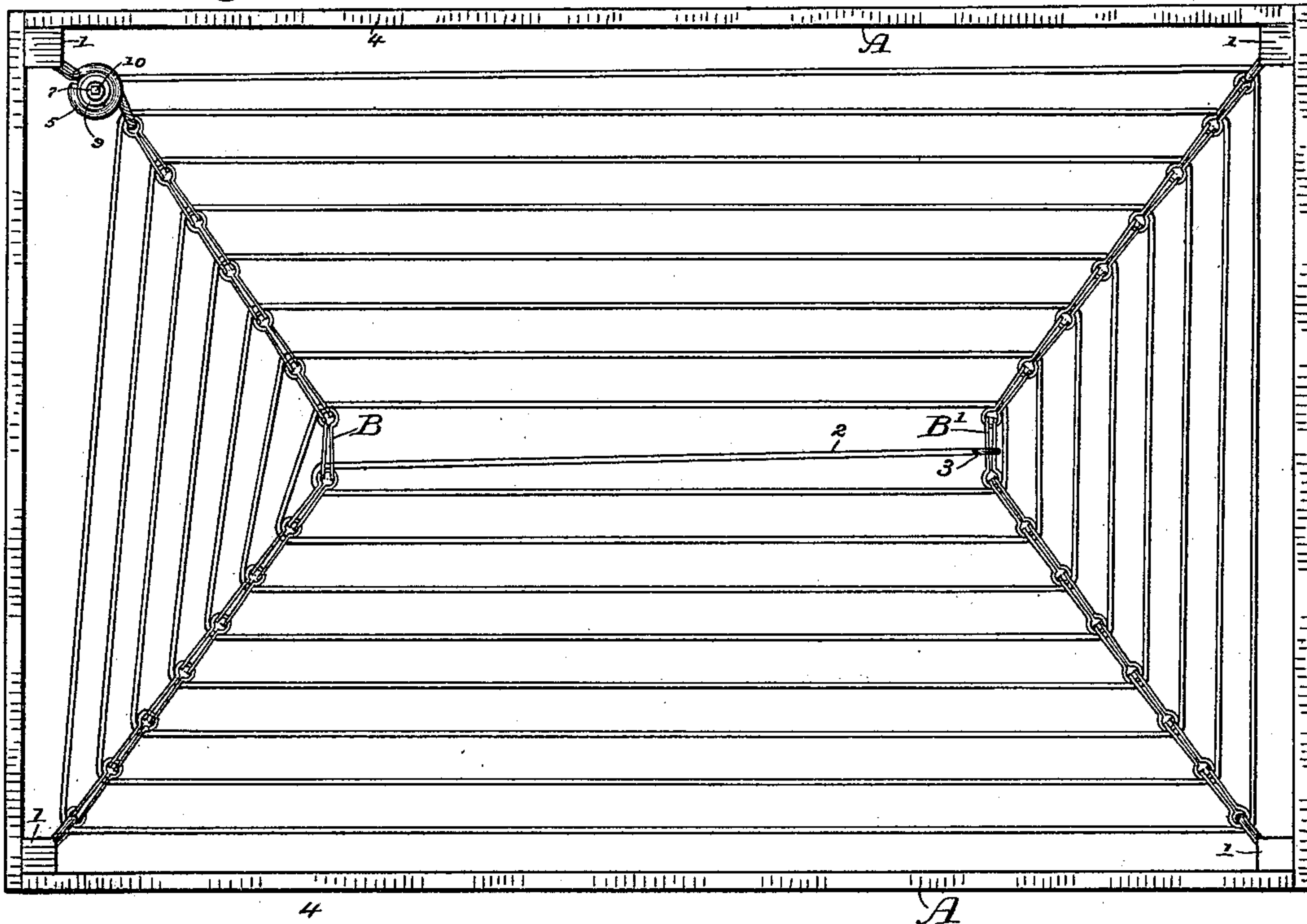
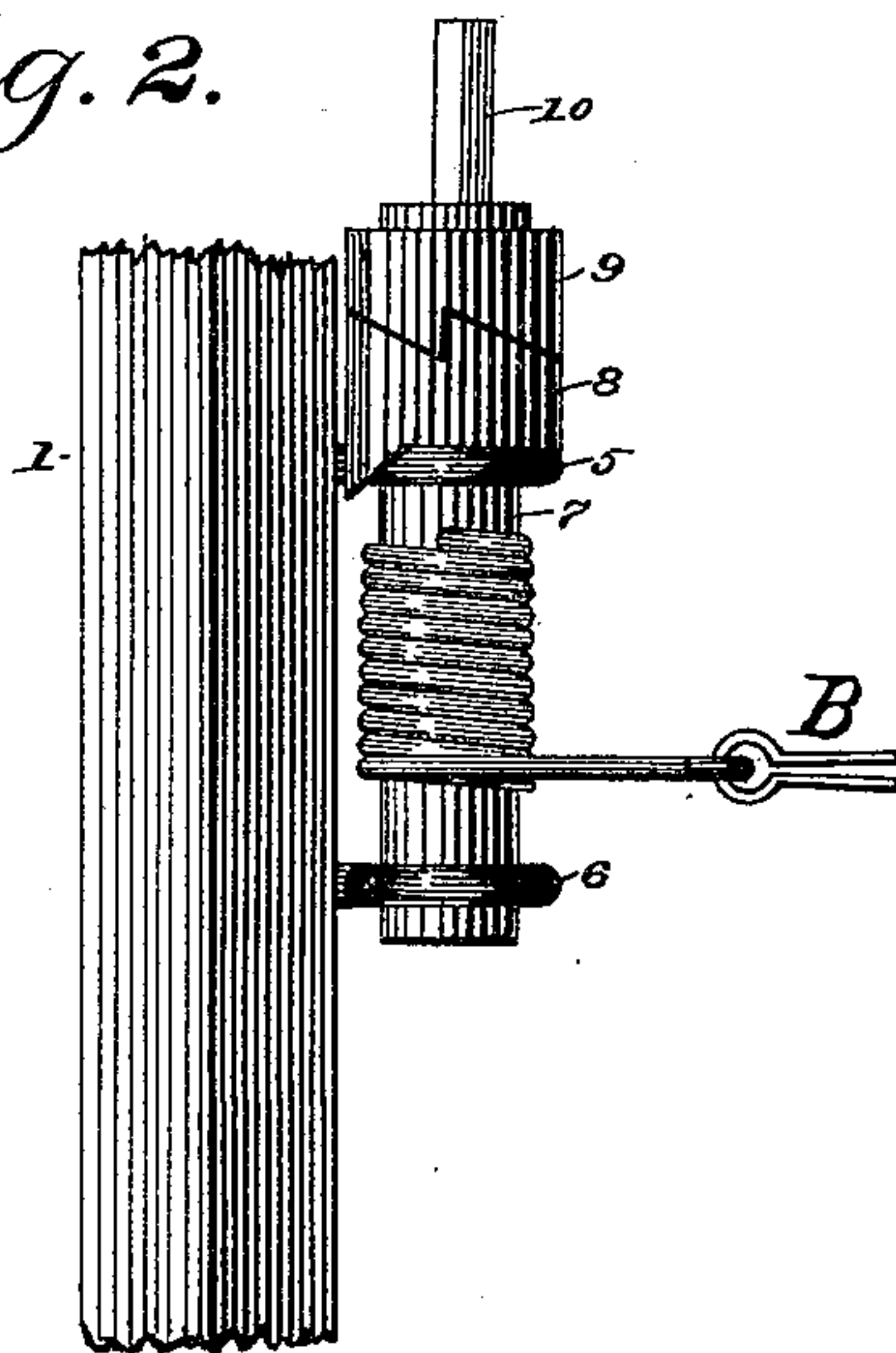


Fig. 2.



WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

GARY B. SMITH, OF KANSAS CITY, MISSOURI, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO J. W. SMITH AND LLOYD S. WALTER, OF SAME PLACE.

SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 438,956, dated October 21, 1890.

Application filed January 6, 1890. Serial No. 336,036. (No model.)

To all whom it may concern:

Be it known that I, GARY B. SMITH, a citizen of the United States of America, residing at Kansas City, in the county of Jackson and State of Missouri, have invented new and useful Improvements in Spring Bed-Bottoms, of which the following is a specification.

My invention has relation to improvements in spring bed-bottoms, and the object is to provide a cheaply-constructed and durable bed-bottom having an easy and comfortable springing function.

With this object in view my invention consists in the novel construction of parts and their combinations, as will be hereinafter more fully described, and specially as the same is particularly pointed out in the claims.

I have fully and clearly illustrated my invention in the accompanying drawings, wherein—

Figure 1 is a plan view of my improved bed-bottom arranged in a bedstead, showing, also, a means for stretching and tightening the bottom. Fig. 2 is a detail view of the tightening means. Fig. 3 is a plan view of a modified construction wherein the strand comprising the bottom consists of a single wire or cord.

A designates the bedstead, which is of any of the usual constructions having corner-posts.

B B' designate supporting-chains arranged at each end of the bed-bottom and adapted to have their ends connected to supports at the corners. Each of these chains is of a length greater than the distance between the supports 1, by which they are connected with the bed-posts, so that when they are drawn taut by the strands of the bottom they assume the angular or V-shaped positions between the bed-posts, as shown in Figs. 1 and 3. To the middle of one of the supporting-chains is secured one end of a strand 2 of which the bottom is composed. This strand is carried through the middle link of the supporting-chain at the other end of the bed-bottom, then back to and through a link of the chain at the other end of the bed-bottom, thence across to and through an opposite link in the same chain beyond the center strand, and thence back to the other supporting-chain, and the strand

thus laid and interwoven or connected to the respective chains, with each successive end and side line or straight portion of the strand arranged nearer to the outer sides and ends of the bed-bottom until the requisite number is reached and the size desired attained. The bottom is thus composed of a single continuous strand carried through the links of the supporting end chains and arranged in the form of substantially rectangular convolutions or coils, each convolution being supported at its corners by the end chains, substantially as shown. The ends of the strand are then secured to one of the chains, as may be seen at 3 in the drawings.

I prefer to use for the strands a metal coil-spring, as shown in Fig. 1 of the drawings, as this gives to the bed-bottom an easy and pleasant resiliency; but for a bed-bottom not accompanied with so much resiliency the continuous strand may be a single straight wire or rope, as shown in Fig. 3 of the drawings.

In case it is desired, the bottom may be supported on a rectangular frame 4, as shown.

To stretch the bottom when arranged in a bedstead, bearings 5 6 are secured in one of the posts, and in these is arranged a vertical sliding rod 7, having a strand wound thereon and leading to the end of the chain connected thereto, and on the upper bearing is secured a clutch-piece 8. On the upper end of the rod is secured a clutch 9, above which the end of the rod projects, as 10, and is formed to take a wrench, by which the rod and clutch may be turned and the bed-bottom tightened to suit.

Having thus described my invention so as to distinguish it from other devices existing in the art, I proceed to particularly point out, and distinctly claim the parts, improvements, and combinations.

I claim as my invention as follows:

1. The bed-bottom herein described, composed of the end chains of a length greater than the distance between the supports to which their ends are connected and a bottom consisting of a single continuous strand connecting the middle of said supporting end chains and arranged in the form of substan-

tially rectangular convolutions or coils, such convolutions being supported at their corners by the said chains, substantially as described.

2. The bed-bottom herein described, composed of the end chains and a bottom consisting of a single continuous strand of coiled spring metal connecting the middle of the said supporting end chains and arranged in the form of substantially rectangular convolutions or coils, such convolutions being sup-

ported at their corners by the said chains, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two attesting witnesses.

GARY B. SMITH.

Attest:

J. T. DEW,

V. E. HUNTER.