

(No Model.)

B. E. LECKRON.
SPRING BED BOTTOM.

No. 435,231.

Patented Aug. 26, 1890.

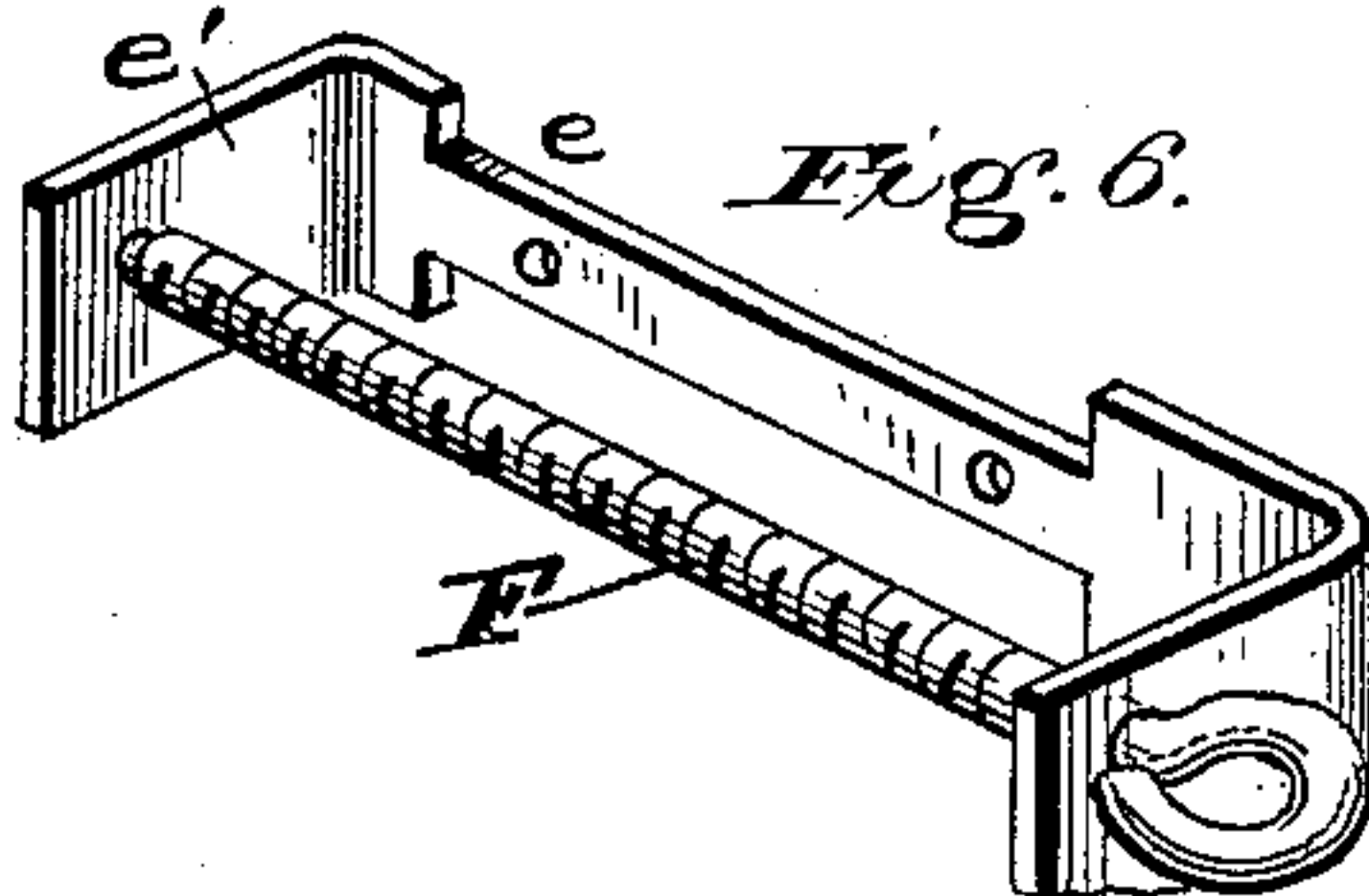
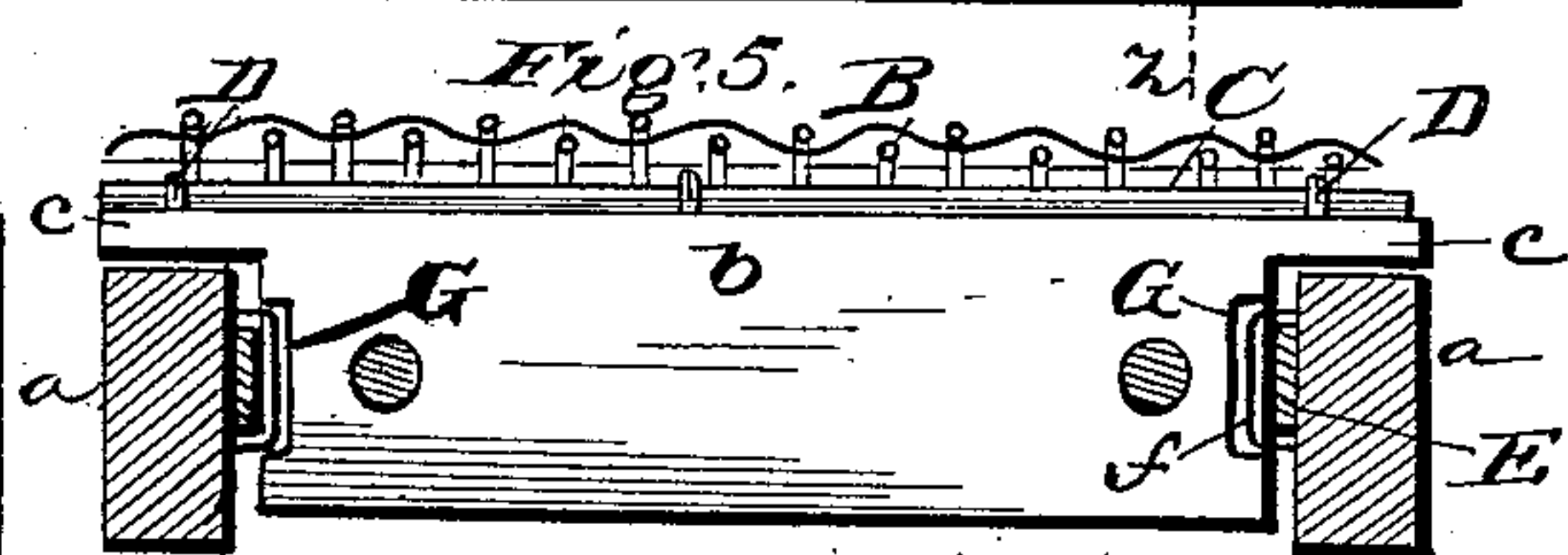
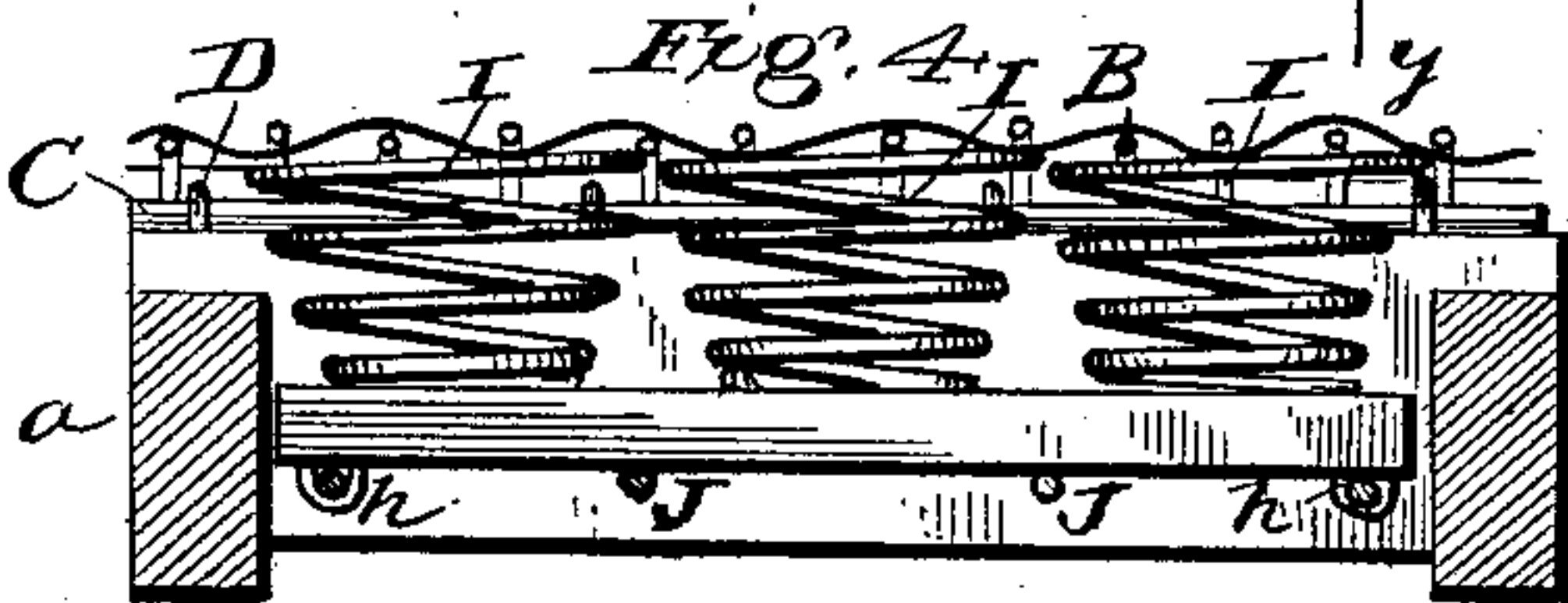
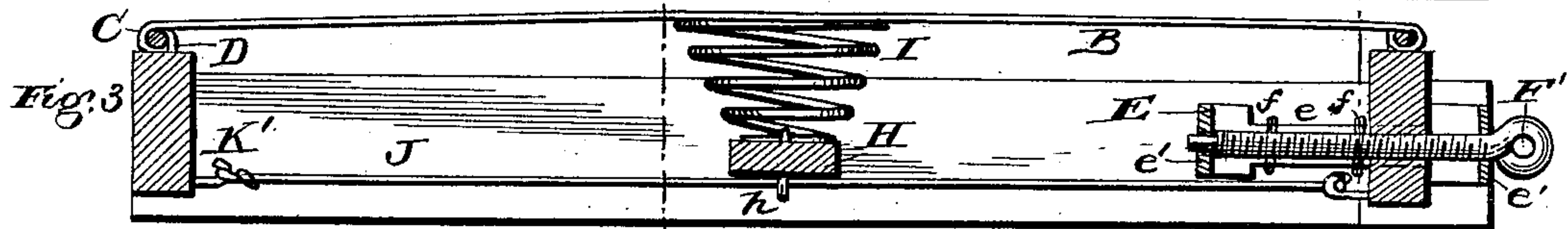
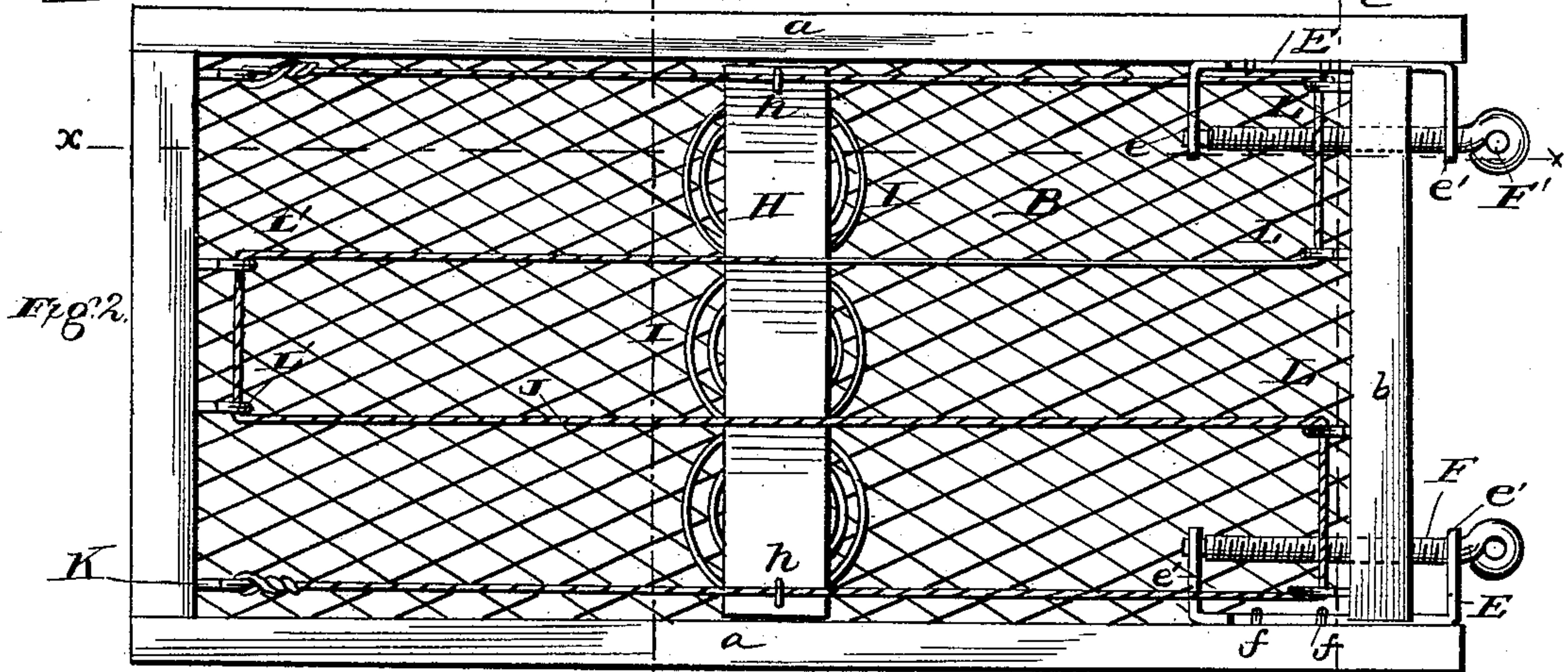
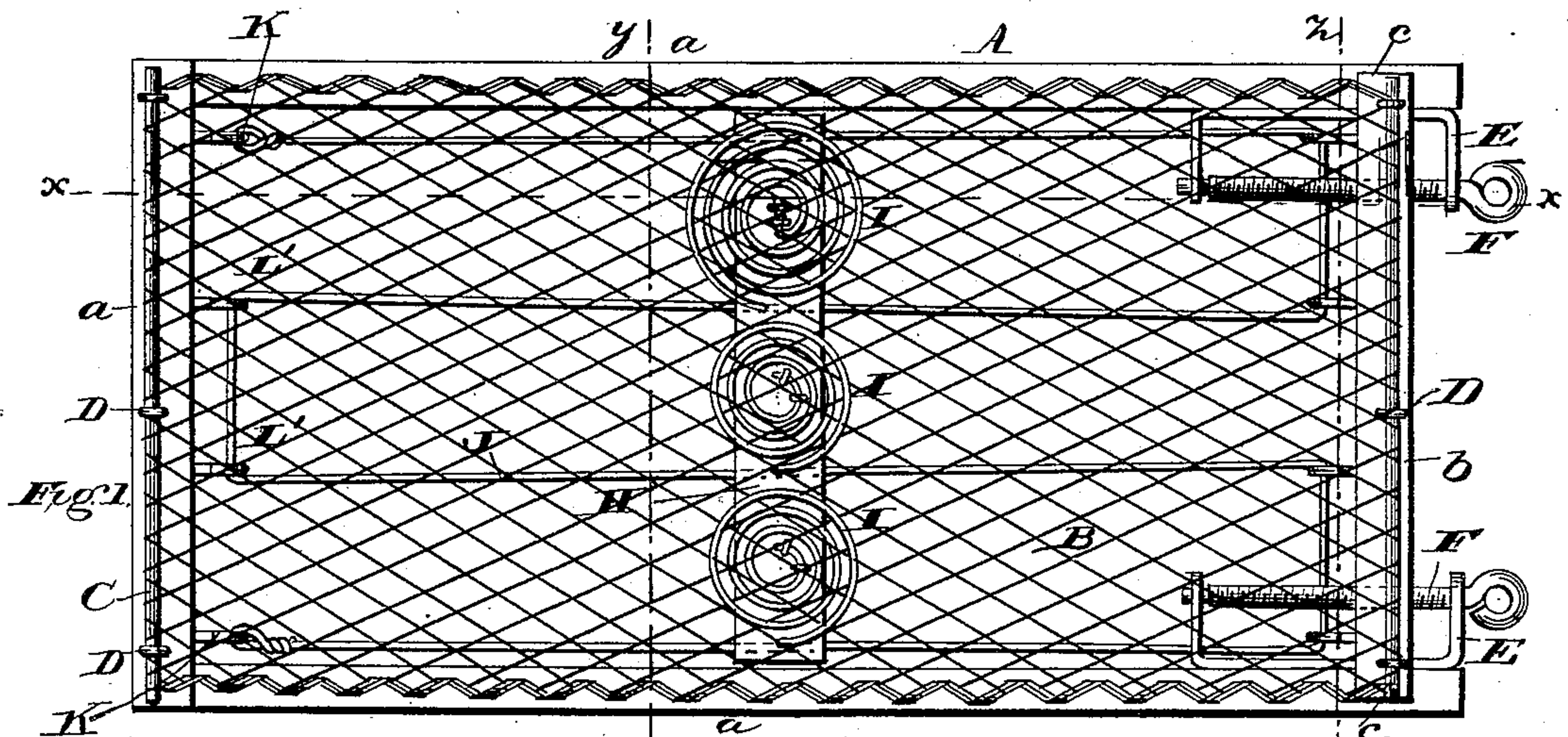


Fig. 7.

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UNITED STATES PATENT OFFICE.

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SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 435,231, dated August 26, 1890.

Application filed February 11, 1890. Serial No. 340,007. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN E. LECKRON, a citizen of the United States, and a resident of Glenford, in the county of Perry and State of Ohio, have invented certain new and useful Improvements in Spring Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description of the invention, 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, which form a part of this specification, and in which—

Figure 1 is a top or plan view of my improved spring bed-bottom. Fig. 2 is a bottom view of the same. Fig. 3 is a longitudinal vertical sectional view on line *x x* in Figs. 1 and 2. Fig. 4 is a transverse vertical sectional view on line *y y* in Figs. 1, 2, and 3. Fig. 5 is a similar view on line *z z*. Fig. 6 is a perspective detail view of the device for tightening the wire bottom, and Fig. 7 is a detail view of a portion of the twisted supporting-wire.

Like letters of reference denote corresponding parts in all the figures.

My invention has relation to woven-wire bed-bottoms; and it consists in the combination, with the woven-wire mattress and its fixed frame, of the improved yielding and adjustable supports, whereby I prevent the mattress from sagging, substantially as will be hereinafter more fully described and claimed.

Reference being had to the accompanying drawings, the letter A designates the frame, which may be of any suitable size and of rectangular shape, said frame consisting of the three parts or pieces *a*. The fourth side of the frame consists of a sliding piece *b*, the ends of which are rabbeted or recessed so as to form overlapping shoulders *c*, which slide upon the parallel side pieces *a a*.

The woven-wire mattress (shown at B) is fastened at one end to the fixed end piece of the frame and at the opposite end to the movable piece *b* by means of rods C, which are inserted through the coils of wire forming the mattress and securely fastened upon the end pieces *a* and *b*, respectively, by means of wire staples D.

Upon the parallel side pieces *a a*, forming

parts of the fixed frame, are fastened, near their outer ends, the tightening devices, (see Fig. 6,) which consist of an iron bail or yoke E, recessed on its upper and under side, as shown at *e*, and fastened to the side pieces of the frame by means of staples *f*, straddling the reduced parts of the bail, so as to effectually prevent this from slipping. In addition to these staples screws may be employed, if desired, for the purpose of holding the tightening device firmly in place. The projecting arms *e'* of the bails E are perforated near their outer ends for the insertion of the tightening screws or bolts F, which work through threaded holes bored in the movable end piece *b*. From this construction it follows that when the threaded bolts F are turned by inserting a rod or key through the bolt-eyes F' the movable end piece *b* may be drawn outward upon the frame, thereby tightening the woven-wire mattress or bed-bottom between its fixed end and the sliding movable piece to which it is attached. This sliding piece *b* has its ends recessed or rabbeted, as shown at G, to enable it to slide upon the reduced part of the tightening devices E, which thus form a guide for said sliding piece, causing the same to move straight forward and back without danger of its binding against the fixed sides of the frame.

In order to support the middle part of the mattress, I employ a cross-piece H, which has fastened to its upper side a series of helical springs I, the upper sides of which bear against the underside of the woven-wire mattress. This cross-piece or middle support H rests upon a support formed by a section of twisted wire J, consisting of a number of spring-wires twisted together in a spiral form, as shown in Fig. 2 of the drawings, one end of the section being fastened permanently upon a hook K in the fixed end piece of the frame, after which it is passed over hooks L in the sliding piece *b*, and then back again over similar hooks L' L' in the fixed end of the frame, and so on, forward and back, until its opposite end is finally permanently fastened in the hook K' in the fixed end piece. The cross-piece H is fastened upon the two outermost rows of wire by means of staples *h h*. By constructing the bottom support J in this manner—i. e., of spirally-coiled wire—

it will be seen that it is enabled to stretch when the bed is tightened by turning the threaded bolts F; and it will also be observed that the greater the pull exerted upon this
5 coiled wire the greater will be its tension and the firmer the support with which it will bear against the under side of the wire mattress through the medium of the cross-piece H and helical springs I. In this manner I
10 provide for a very strong support for the middle part of the wire mattress, which will effectually prevent sagging, and as the cross-piece H is fastened upon and moves with the twisted wires J this cross-piece, with its
15 springs, will always be approximately under the middle part of the bed.

Having thus described my invention, I

claim and desire to secure by Letters Patent of the United States—

In a spring bed-bottom, the combination, 20 with the frame comprising the stationary end and side pieces *a* and the movable piece *b*, having its ends recessed or rabbeted, of the bail E, having recessed portion *e* to receive the ends of the piece *b*, and arm *e'*, and the 25 screw-bolt F, substantially as described.

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

BENJAMIN E. LECKRON.

Witnesses:

AARON HOOVER,
OWEN YOST.