

C. H. GALLUP.
Spring Bed-Bottoms.

No. 156,700.

Patented Nov. 10, 1874.

Fig. 1

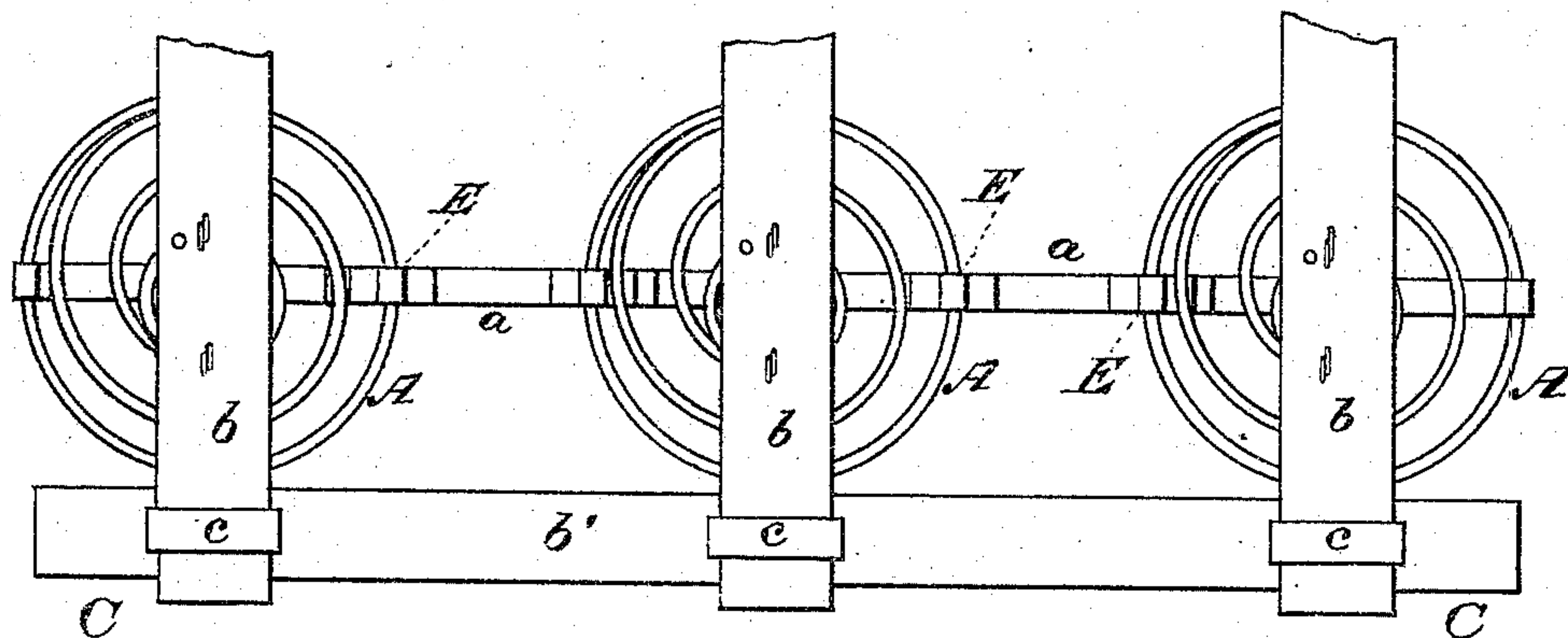


Fig. 2

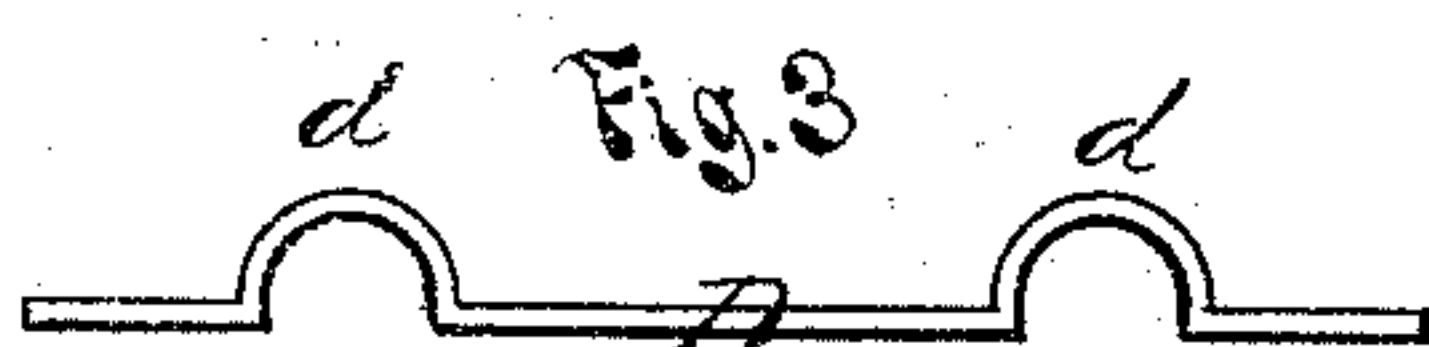
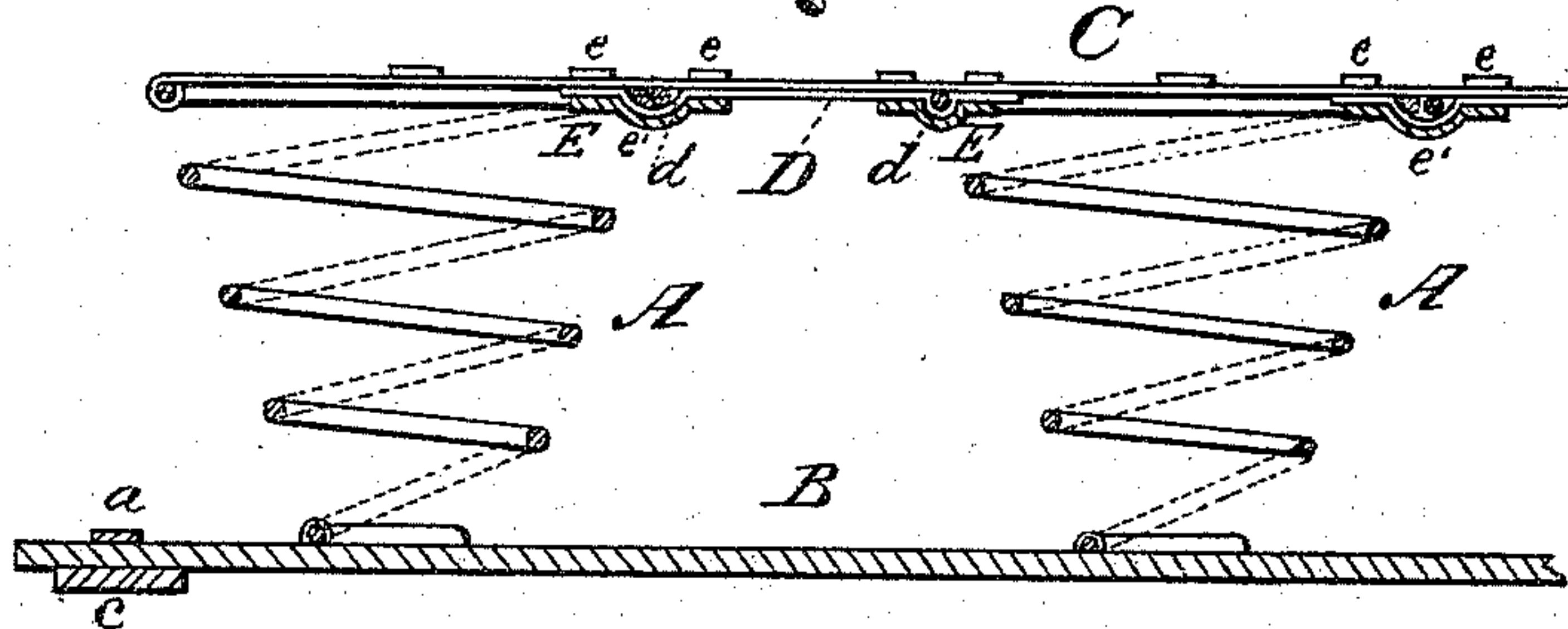


Fig. 5

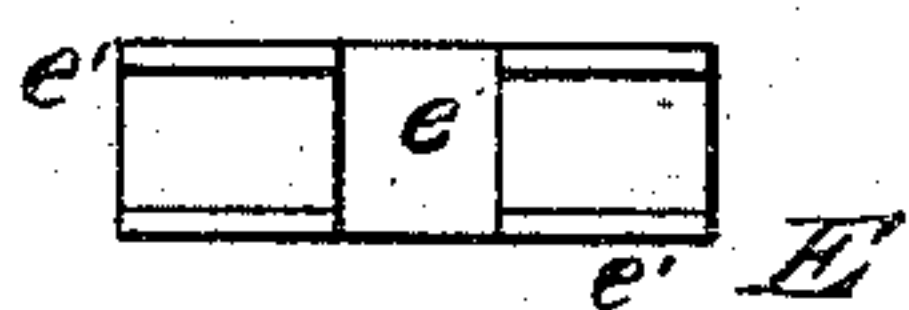


Fig. 4

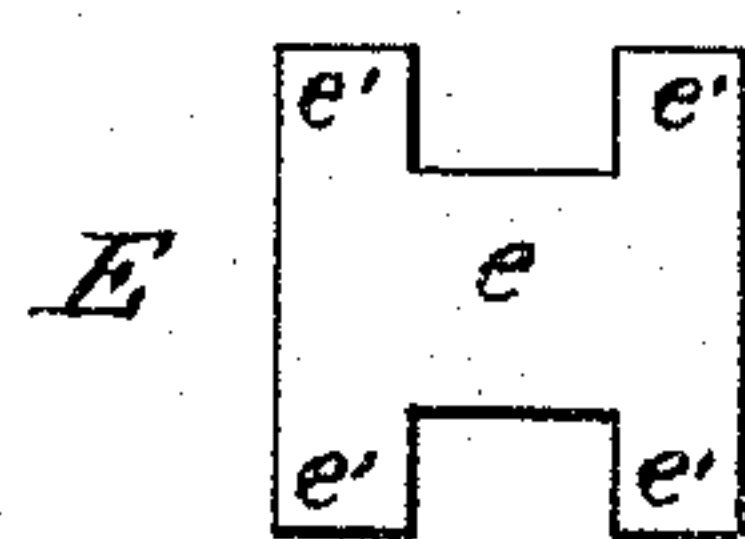


Fig. 6



Witnesses.
George E. Upham,
A. D. Dyer

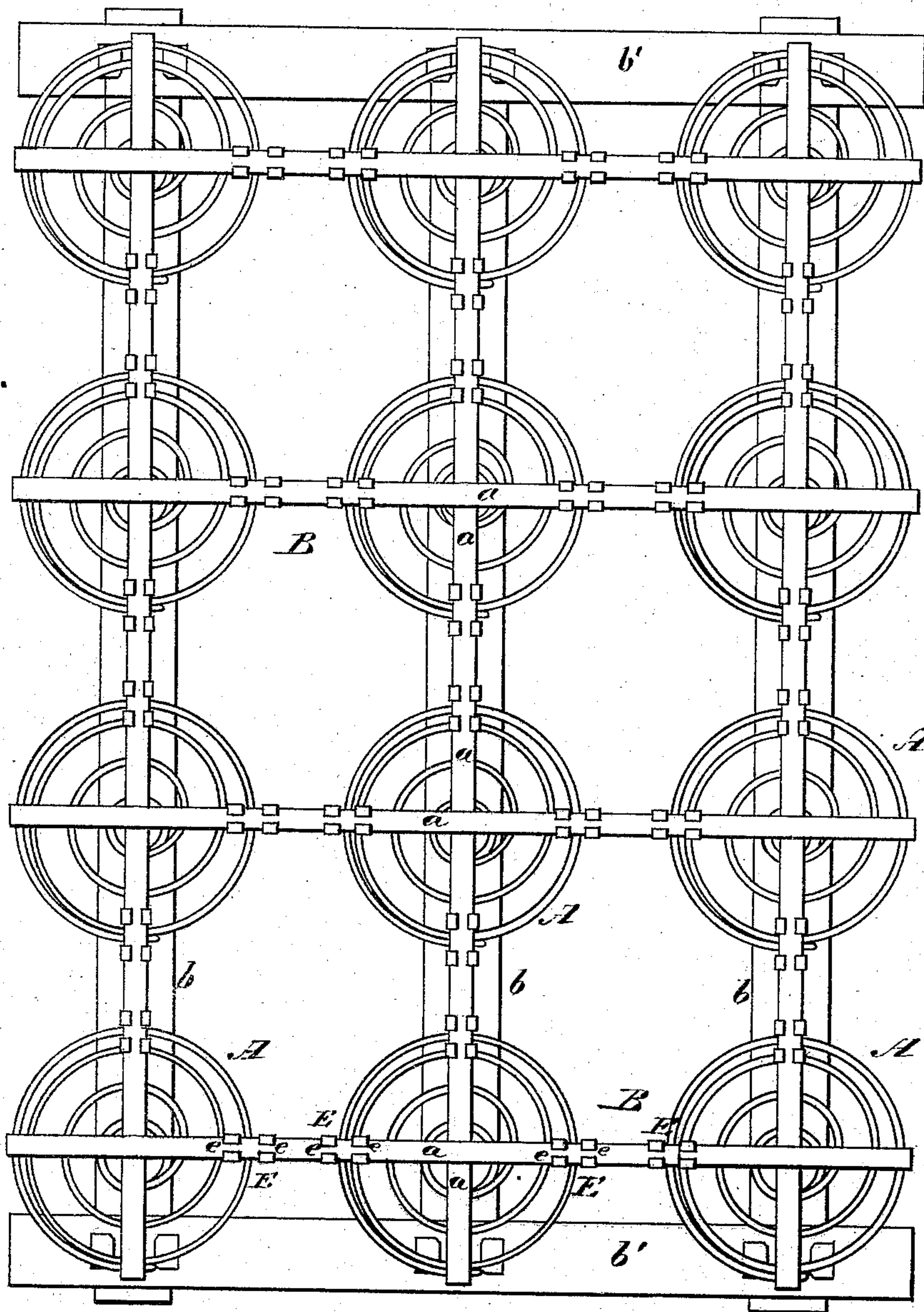
Inventor.
C. H. Gallup,
Chipman & Fournier & Co
Atty

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Fig. 7.



Witnesses.
George E. Upshaw.
A. D. Kauer

Inventor.
C. H. Gallup.
Chipman & Co
attys

UNITED STATES PATENT OFFICE.

CHARLES H. GALLUP, OF POUGHKEEPSIE, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO DAVID S. MALLORY AND SAMUEL W. BUCK, OF SAME PLACE.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **156,700**, dated November 10, 1874; application filed September 18, 1874.

To all whom it may concern:

Be it known that I, CHARLES H. GALLUP, of Poughkeepsie, in the county of Dutchess and State of New York, have invented a new and valuable Improvement in Bed-Springs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a bottom view of my bed-spring. Fig. 2 is a transverse section of same. Figs. 3, 4, 5, and 6 are details of same. Fig. 7 is a top view of same.

This invention has relation to devices for fastening in the springs of mattresses; and it consists in a clasp of peculiar construction, combined with a tie-strip and stiffener, for securing the larger ends of the springs to the top skeleton frame of the mattress, as will be hereinafter explained.

The following is a description of my improvements:

In the annexed drawings, A A represent spiral mattress-springs, which are secured to a metal top frame, and to a bottom frame of wood. The top frame C is composed of longitudinal and transverse strips *a*, and the bottom frame B is composed of longitudinal strips *b*, connected together by transverse strips *b'*. These transverse strips *b'* have flat staples *c* inserted into them, through which the ends of the longitudinal strips *b* pass, thus tying together these strips, and forming a good supporting-frame for the springs. By removing the transverse strips *b'* the mattress can be folded or rolled up, and compressed into a small space. The lower or smallest ends of the springs are secured to the longitudinal strips *b* by means of clinched staples, and by

bending the ends of the spring-wire, and inserting the ends so bent through the said strips. The upper and largest ends of the springs are rigidly secured to the metal strips, constituting the top frame C, by means of tie-plates and clasps, which firmly tie together the said strips and springs. The strips *a* are also secured to the springs by bending the ends of these strips around the spring-wire, as shown in Fig. 2. The tie-strips D are of such length as will connect or tie together two springs, and for this purpose each strip D is looped, as shown at *d d*, to receive the top wires of the springs. When these tie-strips are applied to the strips *a* and springs A, as shown in Fig. 2, they are firmly secured by means of clasps E, each strip D having two of these clasps applied to it. Each clasp is looped, as shown at *e*, and constructed with four wings or clasp portions *e'*, which are bent around a metal strip, *a*, on opposite sides of the spring wires. The loops *e* receive the loops *d* of the tie-strips, and allow the clasps to be compressed snugly in their places.

It will be seen that the tie-strips D not only tie together and brace the springs A, but they also strengthen and stiffen the strips *a* at those points where they bear on the springs.

What I claim as new, and desire to secure by Letters Patent, is—

The four-winged and looped clasps E, combined with the looped tie-strips D, the frame strips *a*, and springs A, substantially as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES H. GALLUP.

Witnesses:

W. FARRINGTON,
A. M. CARD.