

M. STANSEL.
Bed-Bottom.

No. 204,104.

Patented May 21, 1878.

FIG. 1.

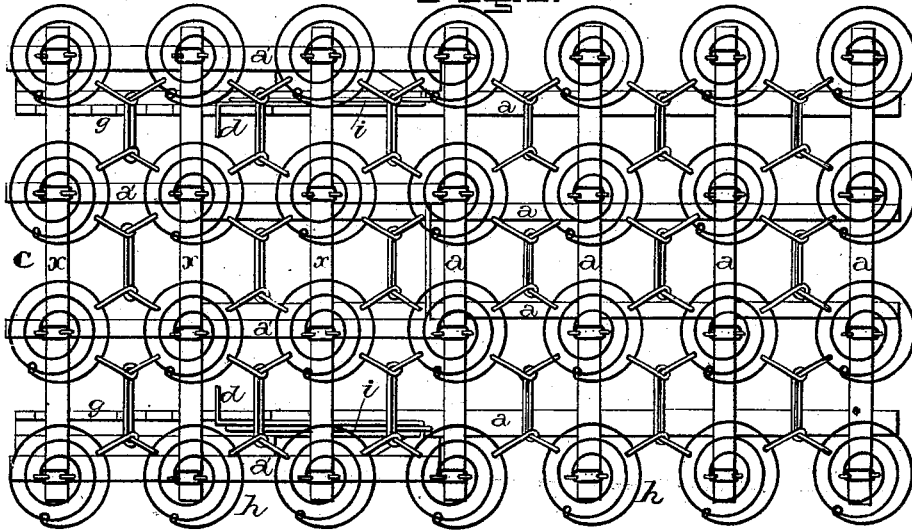


FIG. 2.

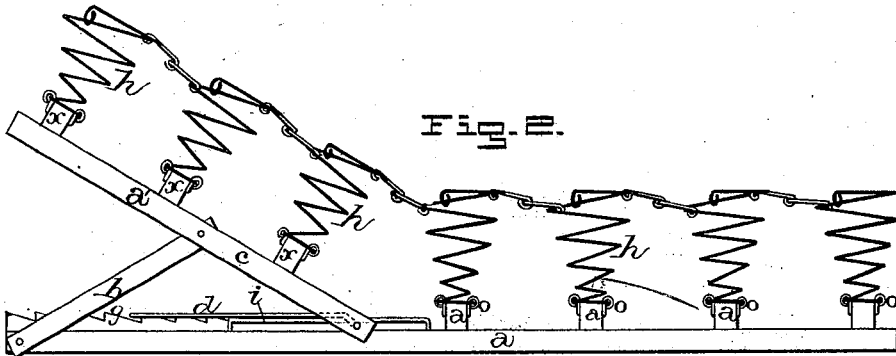


FIG. 3.

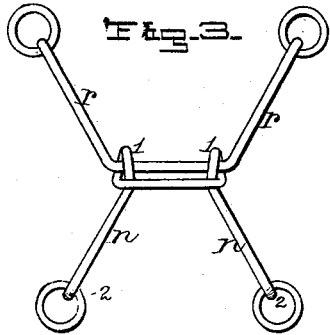
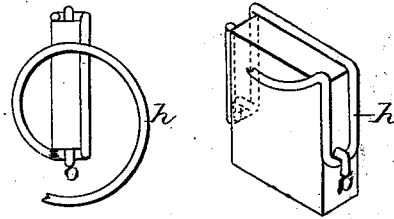


FIG. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

MENZO STANSEL, OF YORKVILLE, ILLINOIS.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **204,104**, dated May 21, 1878; application filed April 13, 1878.

To all whom it may concern:

Be it known that I, MENZO STANSEL, of Yorkville, in the county of Kendall and State of Illinois, have invented certain new and useful Improvements in Bed-Bottoms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in bed-bottoms; and it consists in the arrangement and combination of parts that will be more fully described hereinafter, whereby a cheap, simple, and effective bottom is produced.

The accompanying drawings represent my invention.

The bottom proper is composed of the bars *a*, which are arranged at right angles to each other, and rigidly held in place by any desired fastenings. To the head end of this bottom are pivoted the two braces *b*, which have their other ends pivoted to the head *c*. This head *c* is formed of the cross-bars *x* and the longitudinal bars *a'*, secured together at right angles to each other, and has its two ends left free to move back and forth, as shown. Projecting inward from the inner sides of the lower ends of the head-rest, when raised, are the bent rods *d*, which catch in the ratchets *g* formed upon the tops of the two longitudinal bars of the bottom proper. Upon the top of the bars are formed guides *i*, under which the bent rods *d* catch for the purpose of preventing the inner end of the head from rising upward while moving back and forth.

By means of the braces to which the head is pivoted, and the guides to prevent the inner end from rising upward, it will be seen that the head can be raised to a vertical position, so as to form a back-support for a person sitting up in bed, and that the tops of the springs will be kept the same distance apart as when the head is down. While raised in this vertical position the outer ends of the bent rods *d* catch in the ratchets and hold it rigidly in position.

By having the ends of the head movable back and forth, as here shown, instead of being pivoted at its lower end, as is usually the case, the springs are prevented from toggling together when the head is raised, as they otherwise would do, and the back does not then take up so much of the bed.

The springs *h* upon the cross-bars of both the head and bottom are held securely in position by means of the bent wires or rods *o*, which are passed through the bars, and which wires or rods then have their ends bent upward through the lower rear end of the spring, and then the ends are bent outward and downward over the spring, so as to bind it rigidly to the bar. By this means a very firm rigid fastening is produced, and one which is so simple and cheap that it can be readily and easily made. The upper portions of these springs are attached together by means of a tie or fastening which is formed of the two wires *n r*. The wire *n* has two eyes, *l*, formed in it, and has its two ends formed into hooks *2* for catching over two separate springs. The wire *r* is passed through the two eyes *l*, and then its two ends are bent outward, and also formed into hooks for catching over two springs. Thus it will be seen that a single tie binds together four separate springs, and allows them perfect freedom of action in all respects. This tie can be formed of very light wire, and is so readily and cheaply formed as to cost very little, and can be made by any ordinary workman.

Having thus described my invention, I claim—

The combination of the bottom *a*, braces *b*, head *c*, rods *d*, ratchets *g*, and guides *i*, substantially as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of April, 1878.

MENZO STANSEL.

Witnesses:

JOHN L. LYON,
ALONZO STANSEL.