

A. W. Kendrick, Bed-Bottom.

Nº 75,926.

Patented Mar 24. 1868.

Fig. 1

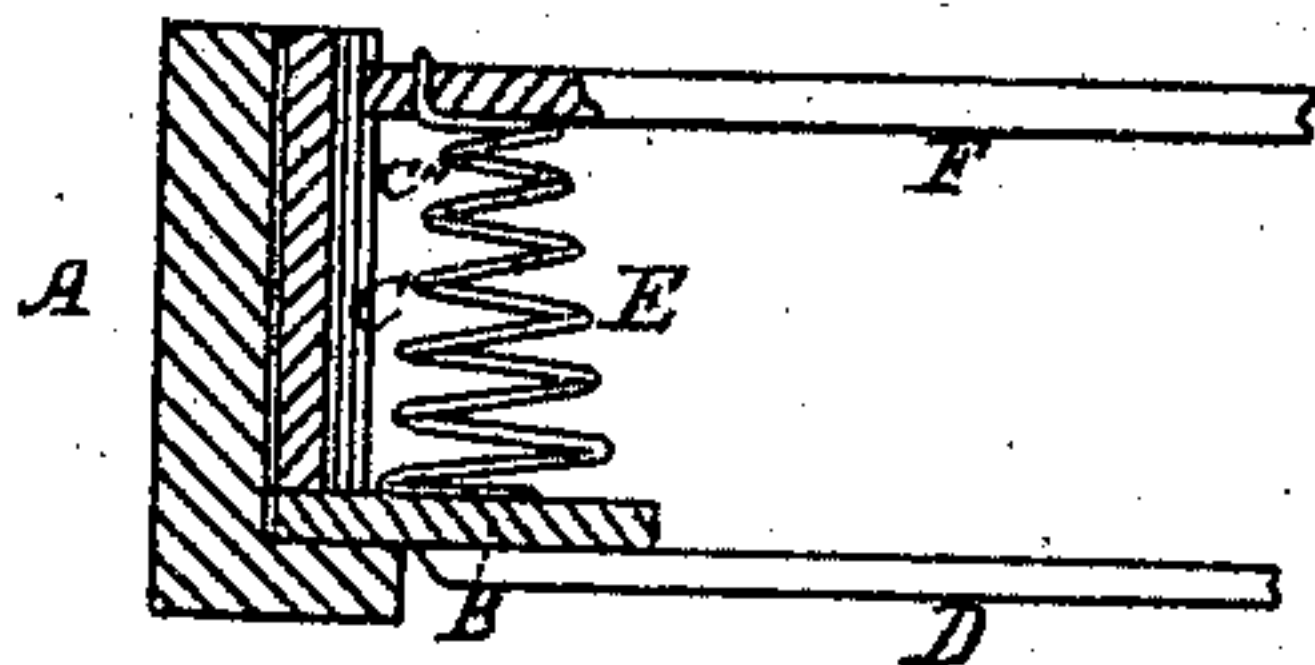


Fig. 1

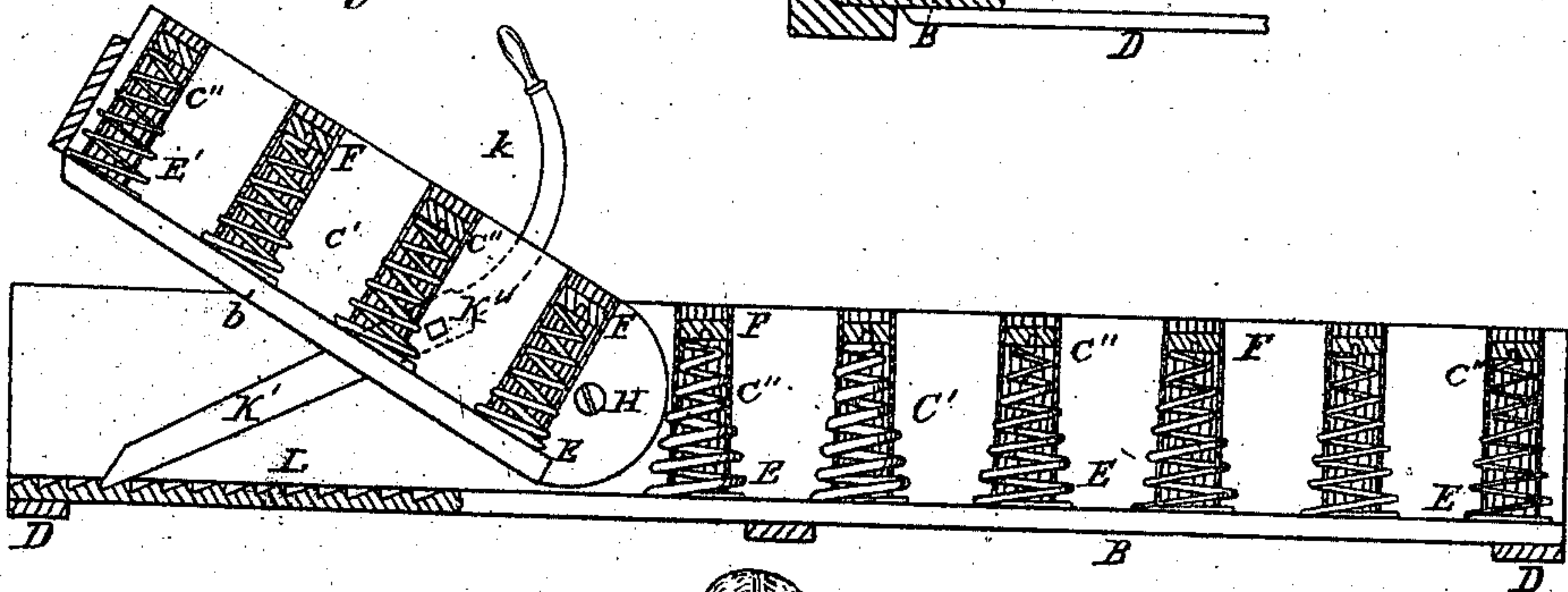


Fig. 2

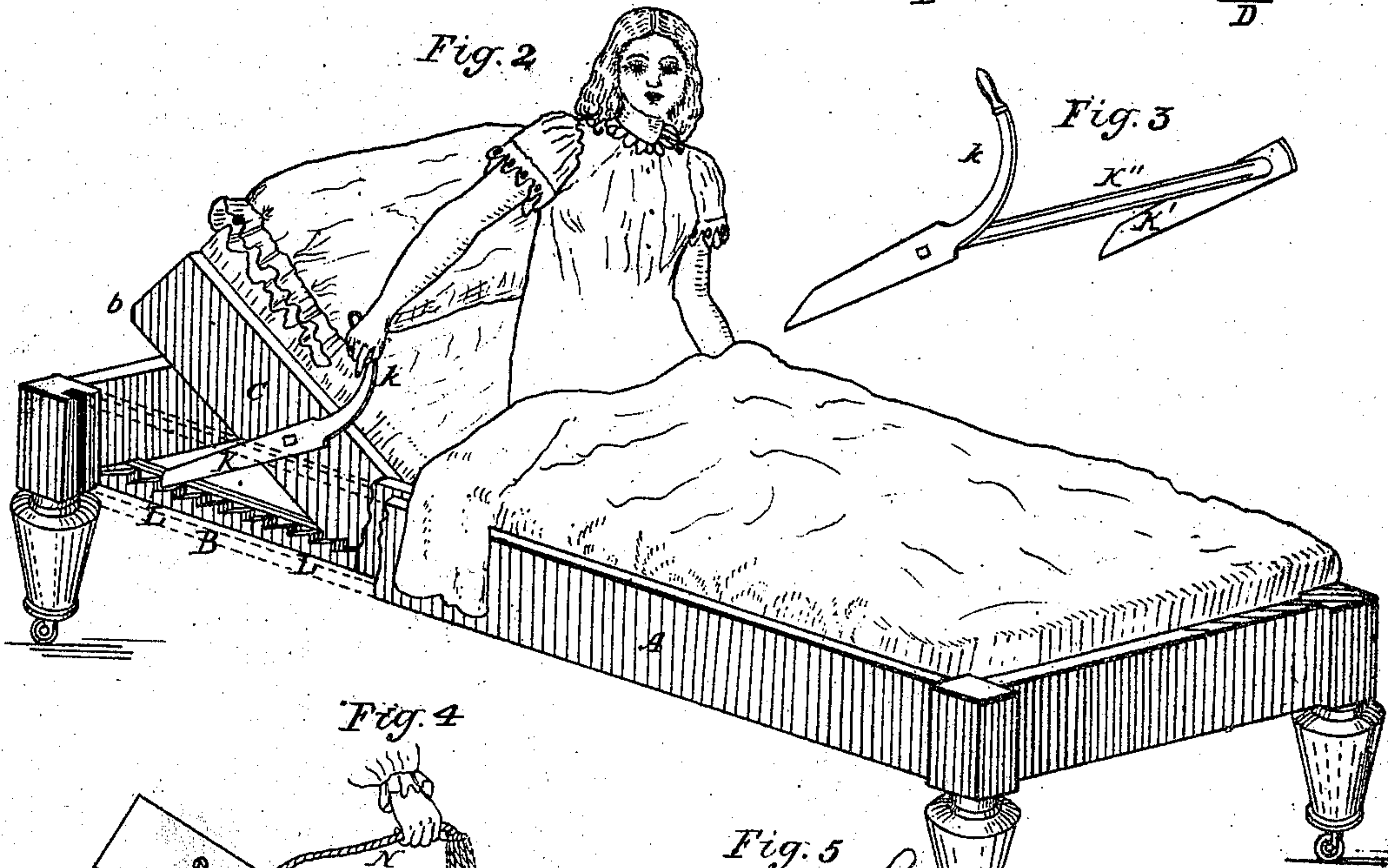


Fig. 3

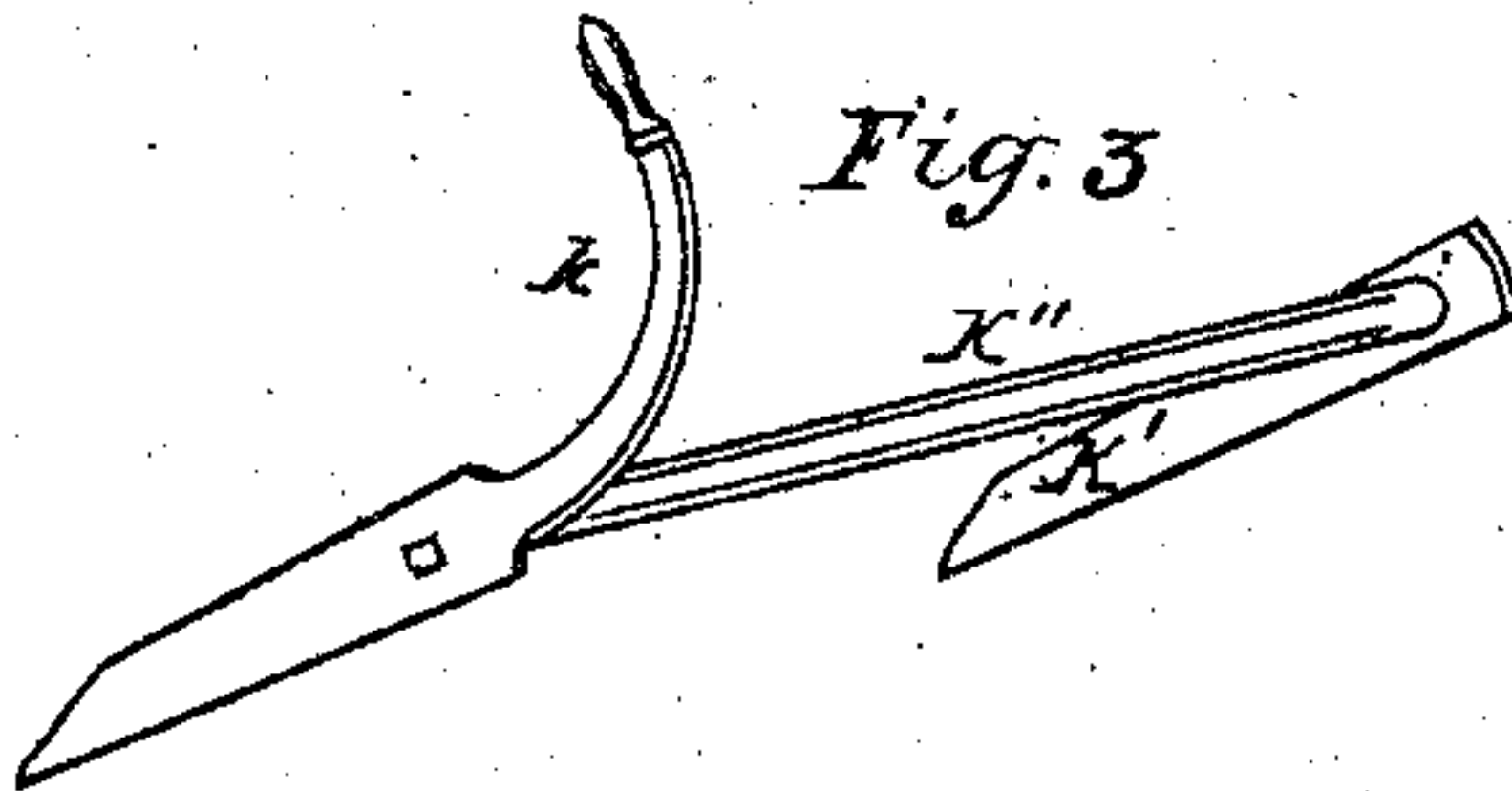


Fig. 4

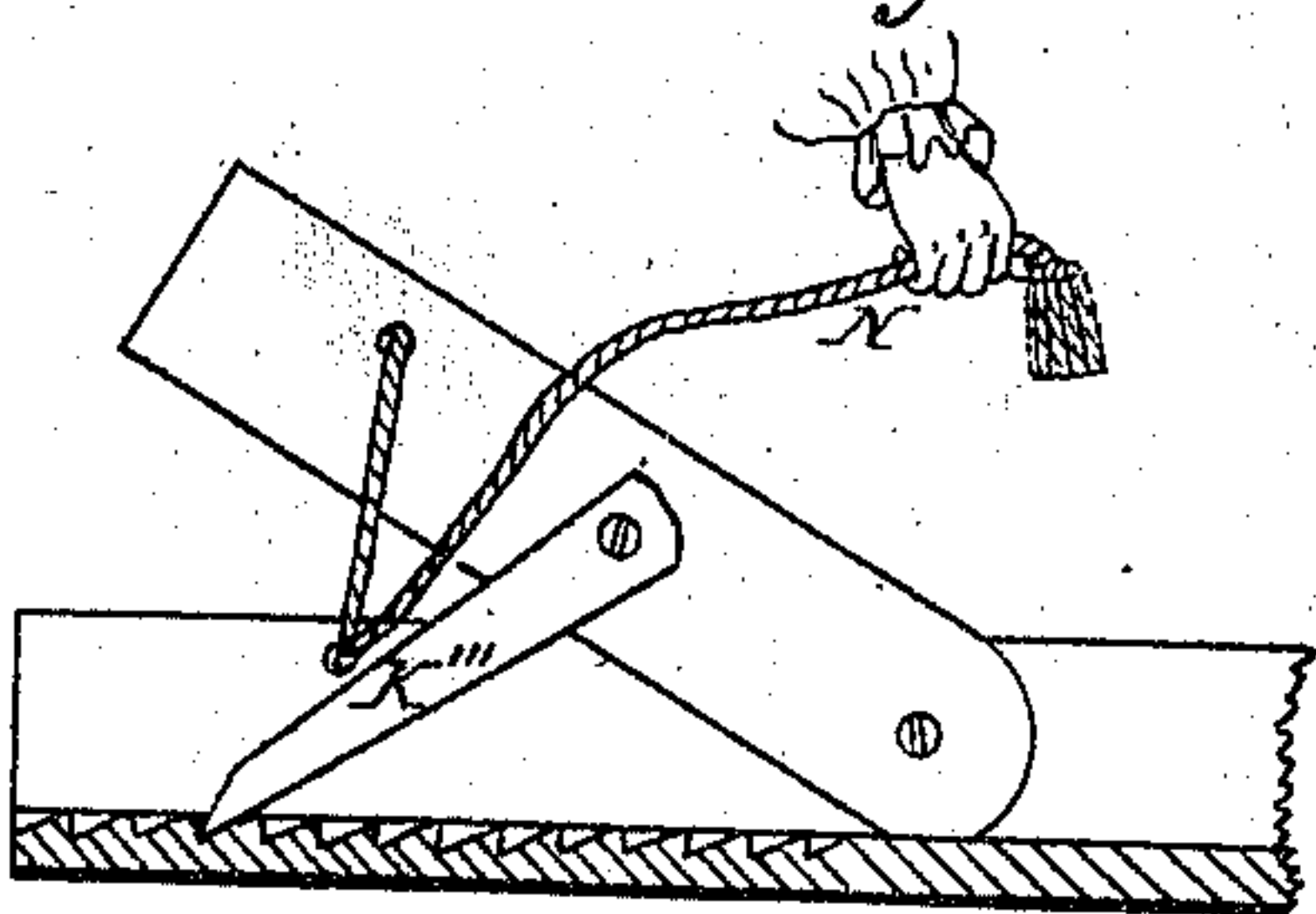


Fig. 5

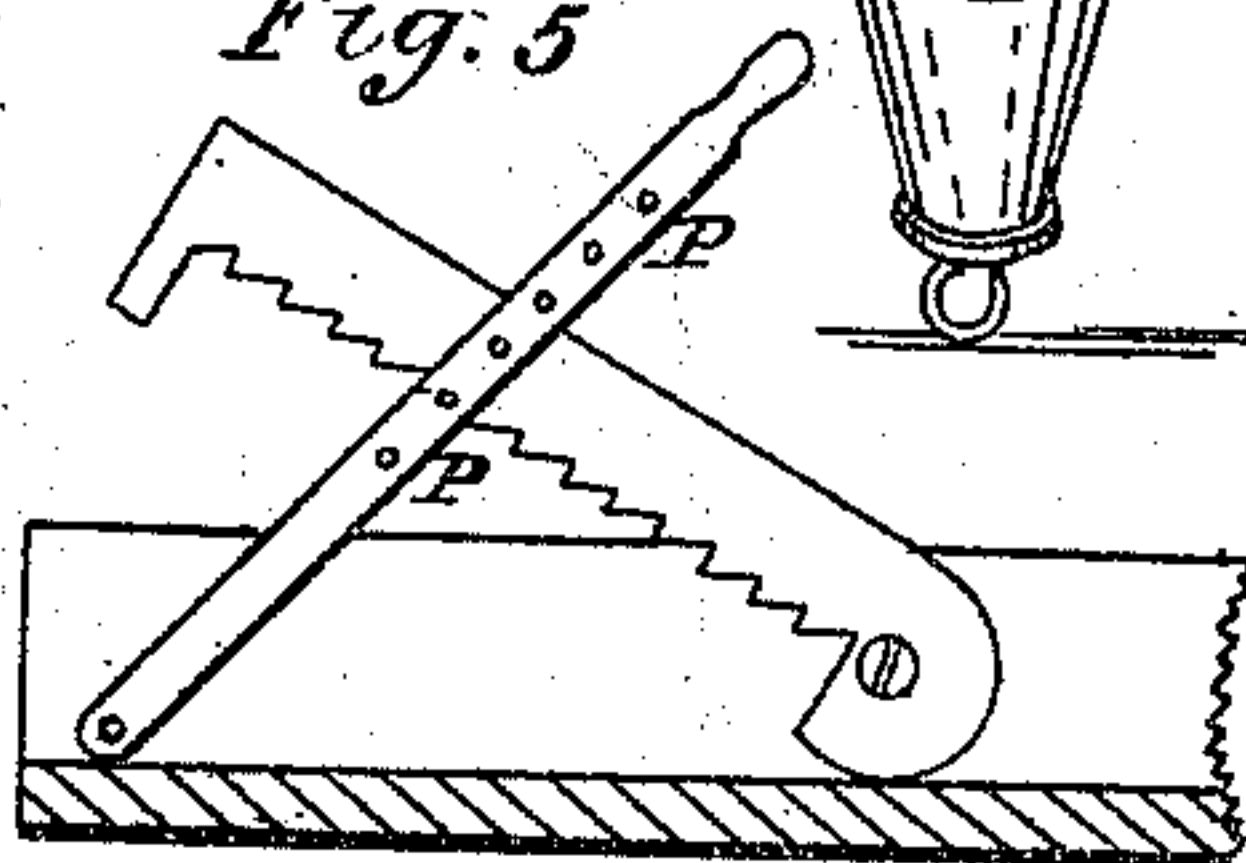
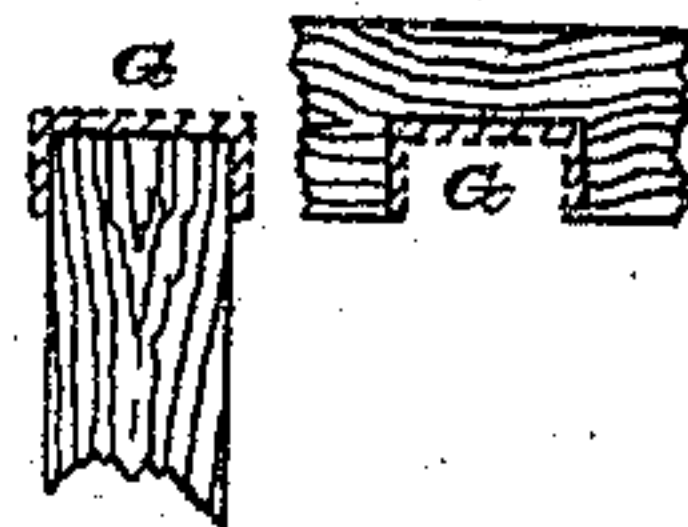


Fig. 6



Witnesses
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ANDREW W. KENDRICK, OF XENIA, OHIO.

Letters Patent No. 75,926, dated March 24, 1868.

IMPROVED BED-BOTTOM.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that I, ANDREW W. KENDRICK, of Xenia, Greene county, Ohio, have invented a new and useful Bed-Bottom; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to a cheap, simple, and easily-constructed bed-bottom, applicable to any bedstead, and which, while equal to the best for ordinary use, is peculiarly adapted to the use of invalids.

Figure 1 is a longitudinal section of a bed-bottom embodying my invention.

Figure 2 is a perspective view showing the same in use, a portion of one rail of the bedstead being broken away.

Figure 3 is a view of the head-raising pawls or levers detached.

Figures 4 and 5 show modifications of my head-raising mechanism.

Figure 6 is a top view of a slat-end and guide-groove.

Figure 7 is a transverse section of one side of my bed-bottom.

A may represent a bedstead of any ordinary construction. I provide for my bed-bottom an open rectangular frame, composed of two L-formed pieces, B C, B' C', firmly connected by cross-rails D. Of the portions B and C on the one side, and B' and C' on the other side, the horizontal parts B and B' serve to support two series of helical springs E E', which are also attached to the same. These springs are composed of wire of different thicknesses, and each opposite pair of said springs supports one of a series of transverse slats F.

The stiffest springs, or those composed of the thickest wire, are situated at the mid-length of the bed-bottom, and those of the thinnest wire towards the ends of the same. By means of this graduated arrangement of springs, I am enabled to apportion the resistance with great nicety to the weight to be supported. The heavier or middle portions of the occupant's body being thus made to rest upon the strongest springs, the whole person is comfortably supported. For greater security, I pass the upper and lower extremities of the springs into the parts F and B respectively.

In order to guide and restrict the slats to a vertical play, I cause their ends to enter and occupy grooves or gains c'', cut vertically in the inner sides of the parts C, and these grooves, or the ends of the slats, should be lined or encased in vulcanized India rubber, as shown at G, fig. 6, in order to prevent creaking, and exclude bugs and other vermin.

In order to enable the elevation of the head or upper portion of the bed-bottom, I provide an adjustable frame, whose sides b c, b' c' correspond to those, B C, B' C', of the main frame of the bed-bottom, to which I unite them by means of hinges, pivots, bolts, or screws, H, and this frame supports a series of springs and slats corresponding to those of the main frame of the bed-bottom, and which are shown in the drawing correspondingly lettered.

To enable the frame b c, b' c' to be elevated and held to any height, I pivot thereto, by means of a shaft, K'', journaled in the sides of the said frame, levers K K', whose lower ends are pointed and enter racks L L' on the parts B B' of the bottom. The levers K K' terminate in curved handles K, both to enable them to be more readily reached in their depressed condition, and more firmly and conveniently grasped when elevated.

While preferring the arrangement as above described, I desire to be understood as not limiting the invention strictly thereto, so long as the results are obtained by means substantially equivalent; for example, the levers K K' may be replaced by simple pawls K'', operated by one or more cords, N, as shown in fig. 4, or the racks may be placed on the adjustable frame, and be supported on shiftable pins p, projecting from levers P, pivoted to the bottom proper, as in fig. 5. The sides A of the bedstead may take the place and perform the functions of the portions C of the bottom.

A sufficient space or interval should be left between the sides of the bedstead and bottom respectively, to enable the tucking in of the bed-clothes.

I claim herein as new, and of my invention—

1. The arrangement of outer frames B C B' C', and inner and adjustable frame b c, b' c', racks L L, and pawls or levers K, in combination with the series of slats F, supported transversely on the helical springs E, resting upon the ledges B B' and b b' of the outer and inner frames respectively, substantially as set forth.

2. In the described combination, the graduated or decreasing series of helical springs E, with the stationary and adjustable frames B C, B' C and b c, b' c' respectively.

In testimony of which invention, I hereunto set my hand.

ANDREW W. KENDRICK.

Witnesses:

GEO. H. KNIGHT,

JAMES H. LAYMAN.