

H. GOODRICH.

Improvement in Parlor-Beds.

No. 127,338.

Patented May 28, 1872.

Fig. 1.

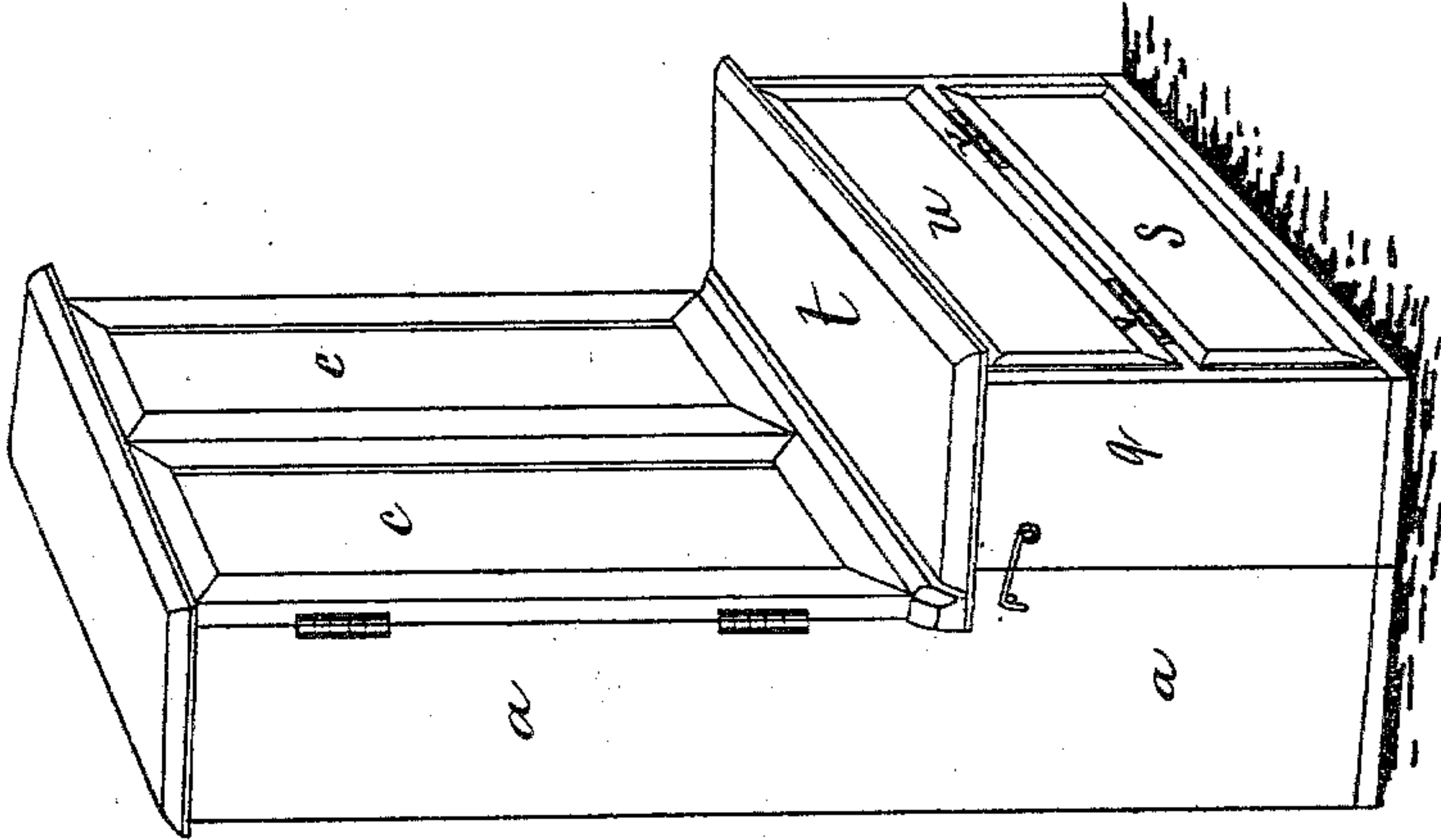
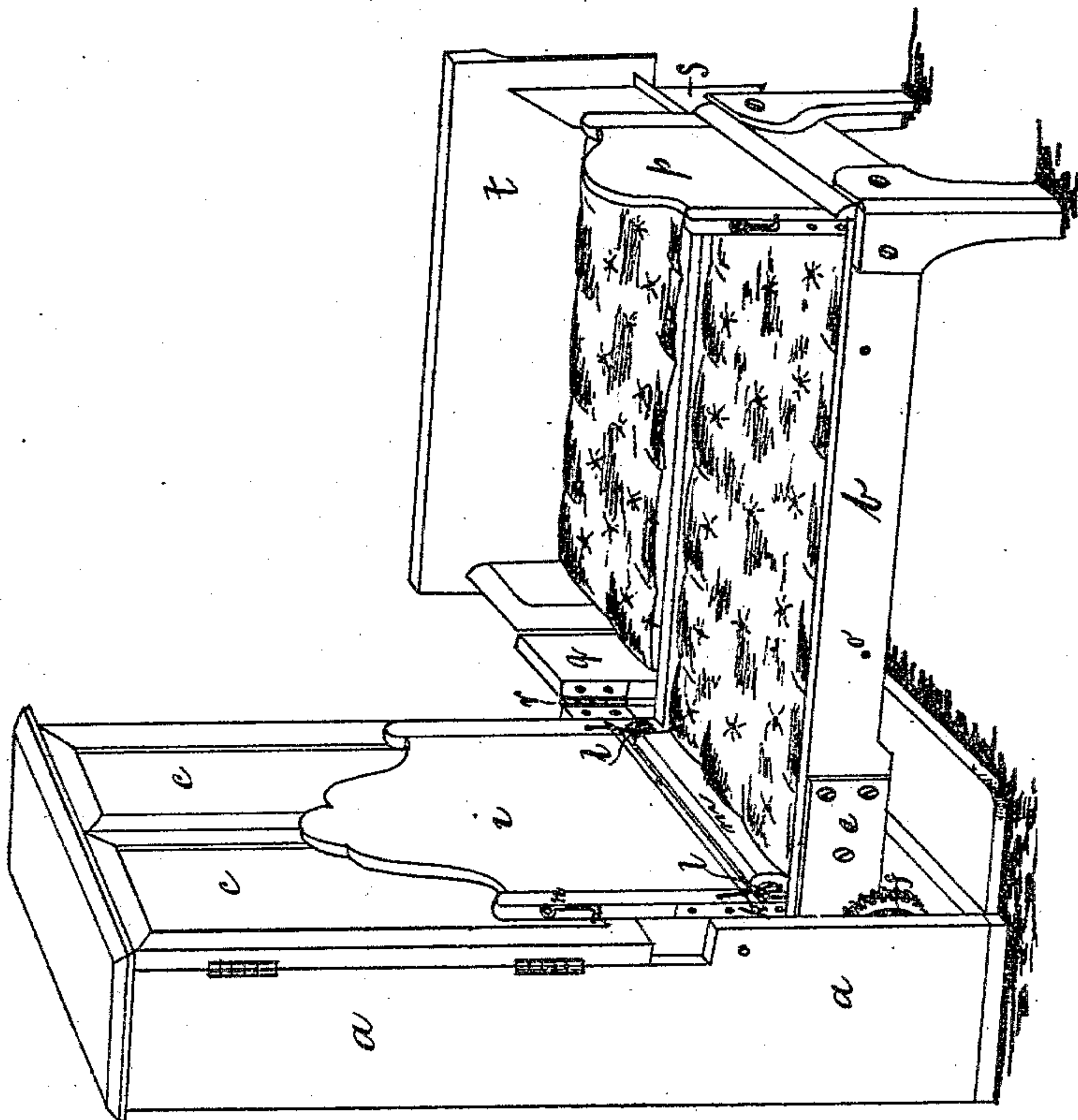


Fig. 2.



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Inventor:
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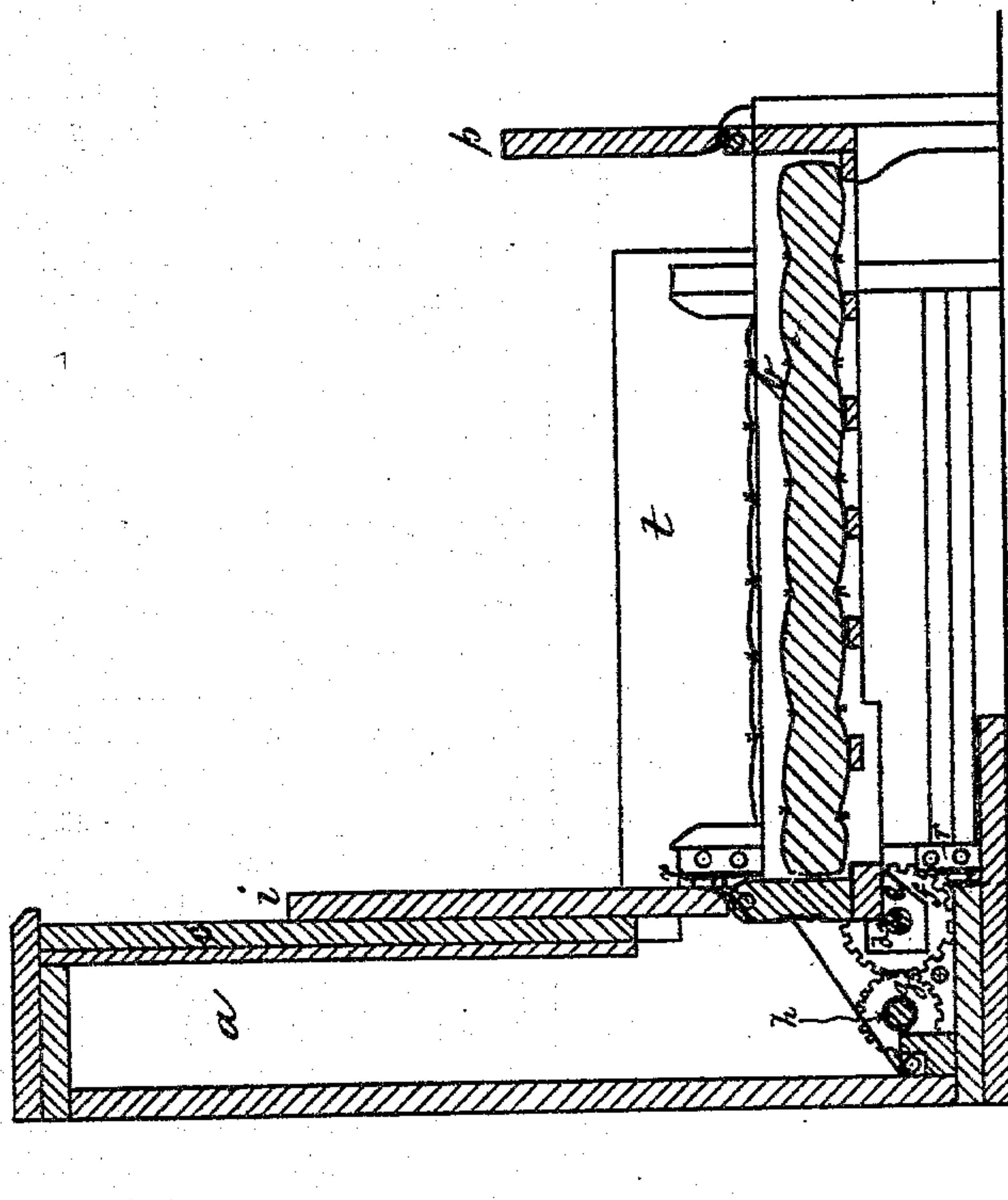
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Fig. 3.



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UNITED STATES PATENT OFFICE.

HORACE GOODRICH, OF STONEHAM, MASSACHUSETTS.

IMPROVEMENT IN PARLOR-BEDS.

Specification forming part of Letters Patent No. 127,338, dated May 28, 1872.

I, HORACE GOODRICH, of Stoneham, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Parlor-Beds, of which the following is a specification.

Nature and Objects of the Invention.

The nature of my invention relates to improvements in parlor-beds, consisting in the employment of cog-wheels attached stationary to the shaft, around which the bed is swung. The said cog-wheels gear into smaller pinions attached to a secondary shaft, to which spiral springs or their equivalents are attached for the purpose of raising the bed easily to a vertical position when not in use. The purpose of the gear-wheels and the secondary shaft is to be able to operate the bed with a weaker spring or springs than otherwise would be needed. The head and foot boards are also operated by means of springs so as to relieve the work of the operator. The forward part of the furniture is made to swing round on vertical hinges, and, when opened, may be used as a smaller bed or crib for children, or may be used as a sink or table, as may be desired.

On the drawing, Figure 1 is a perspective view of my improved family bed when closed. Fig. 2 is a perspective view of the same when folded open and ready for use. Fig. 3 is a central longitudinal section of the main bed when open.

Similar letters refer to similar parts wherever they occur on the drawing.

a on the drawing is the case in which the main bed *b* is inclosed when not used. The upper part of the case *a* is provided with doors *c c*, movable on hinges, as shown. The main bed *b* is made to swing around the center of the shaft *d*, that is attached stationary to the bed *b* by means of the plates or brackets *e e*, as shown. In each end of the shaft *d* is attached a cog-wheel, *f*. Said cog-wheels *f* gear into pinions *g* attached to the secondary shaft *h*. The shafts *d h* are both movable in suitable bearings attached to the inside of the lower part of the case *a*. Around the shaft *h* I wind and attach one or more spiral springs, and secure one end of said springs to the case *a* for the purpose of raising the bed *b* automatically around the shaft *d* when not needed for use.

I am aware that springs have been used on

the main shaft *d* for that purpose; but, for the purpose of making lighter springs perform the same operation to equal advantage, I use the wheels *f* and pinions *g* in combination with the secondary shaft *h*, to which the spring or springs are attached.

If the gears *f* and *g* are to each other as 1 to 4, for example, I need only one-quarter as strong spring on the shaft *h* as I would require on the main shaft *d* to perform the same work. The head-board *i* is made to turn around hinges *k* at its lower side, and spiral springs *l l*, attached to the board *i* and the brace *m*, or its equivalents, raise the head-board *i* automatically to a position, as shown in Fig. 2, as soon as the hook *n* on the head-board *i* is unfastened from the pin *o* on the bed *b*. The same arrangement is used for the foot-board *p*, that is operated in the same manner as the head-board *i*. To one side of the case *a* is hinged a box, *q*, by means of vertical hinges *r*, as shown, by which means the box *q* can be swung out sidewise from the case *a* when the bed is to be used. The box *q* may be detached altogether from the case *a* by making the hinges *r* male and female—in such a manner that the one may be lifted out from the other. *s* is a drawer in the lower part of the box *q* for the use of clothes and sundry articles. The top *t* and front *u* of the box *q* are attached together and hinged to the box *q* by means of hinges *v v*, so that they may together be swung on the hinges *v v* to a position as shown in Fig. 2, when the box *q* may be used as a crib for children. The drawer *s* may in this case be drawn out a little, so as to serve as a support for the parts *t u*. The box *q* may to equal advantage be used as a sink, table, or chest of drawers by slightly altering the arrangement thereof.

Having thus described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

In combination with the case *a* and bed *b*, the gears *f g*, the stationary shaft *d*, and movable shaft *h* with its spiral or other springs, the hinged head and foot boards *i p*, and the hinged crib, sink, or table *q*, as and for the purpose herein set forth and described.

HORACE GOODRICH.

Witnesses:

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