

(No Model.)

A. HENTSHEL.  
SOFA BED LOUNGE.

No. 250,810.

Patented Dec. 13, 1881.

Fig. 1.

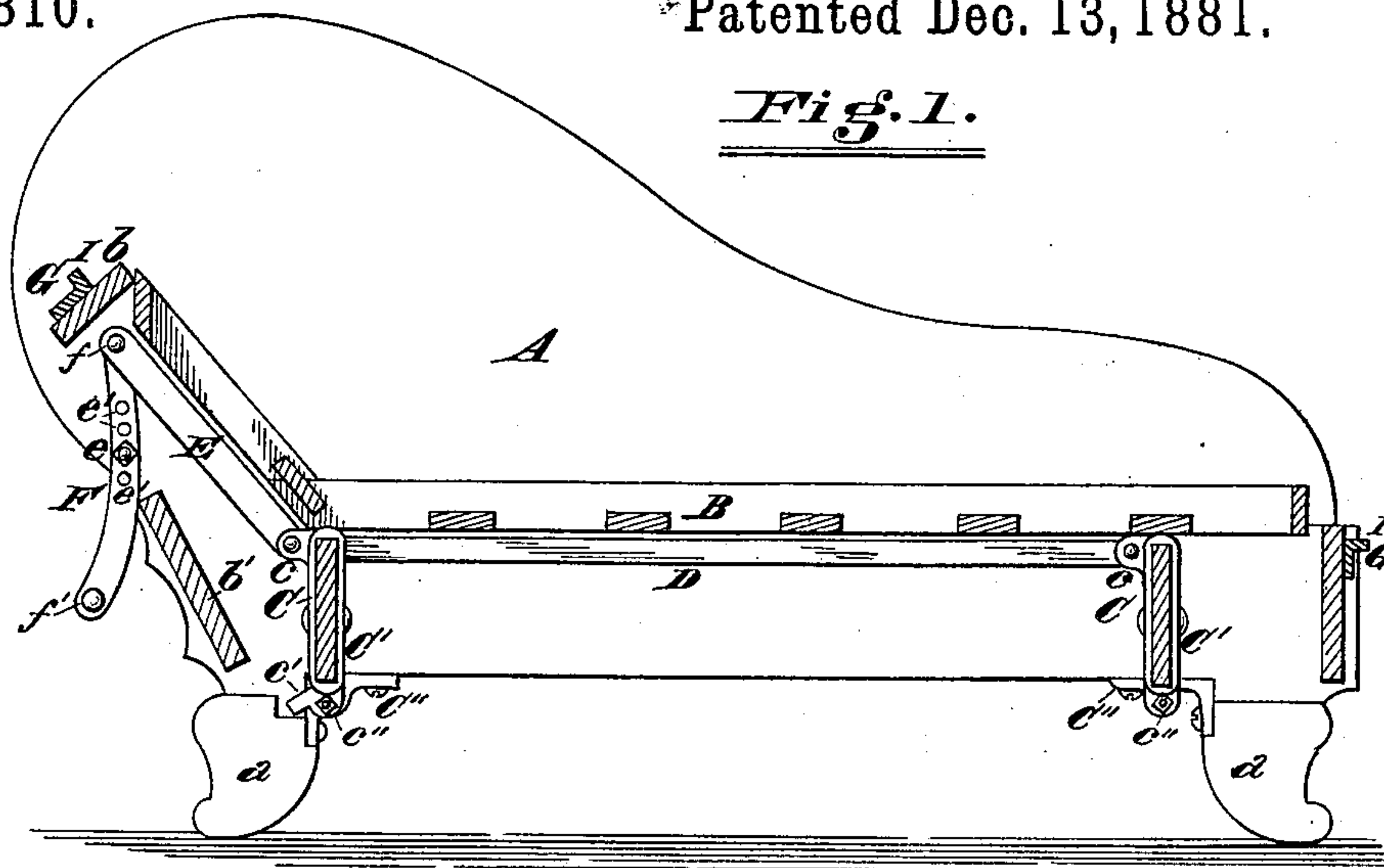


Fig. 2.

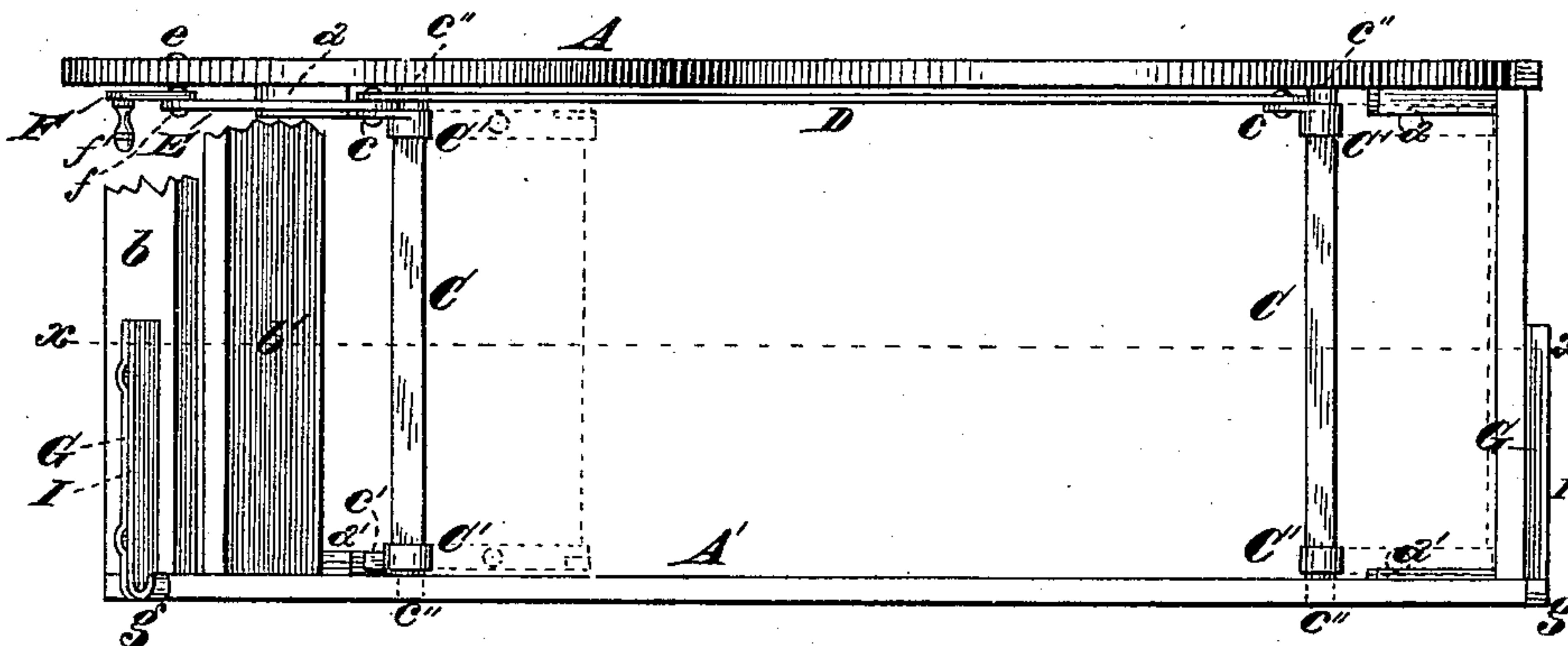
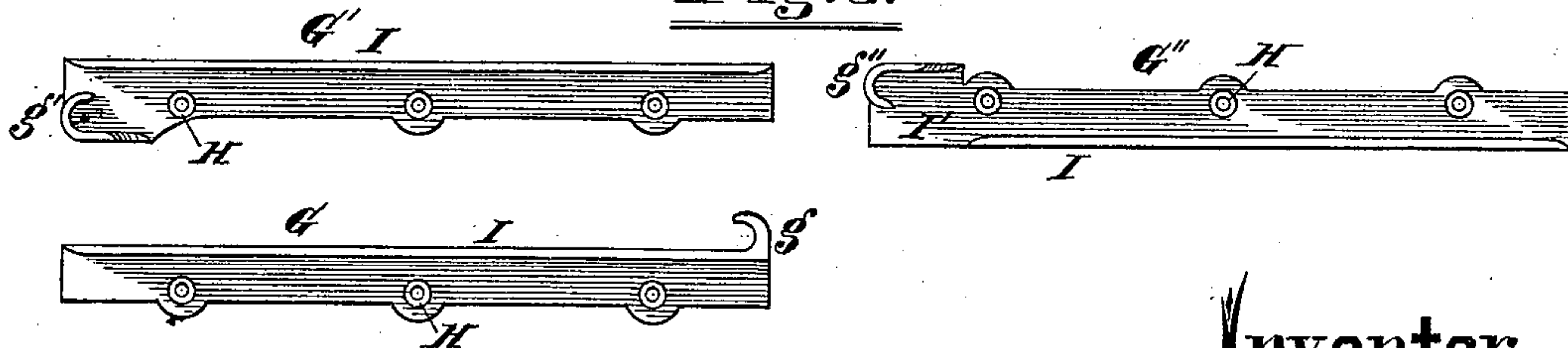


Fig. 3.



Attest

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# UNITED STATES PATENT OFFICE.

AUGUST HENTSHIEL, OF CINCINNATI, OHIO.

## SOFA-BED LOUNGE.

SPECIFICATION forming part of Letters Patent No. 250,810, dated December 13, 1881.

Application filed May 27, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUST HENTSHIEL, a citizen of the United States, of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Sofa-Bed Lounges, of which the following is a specification.

My invention relates to an improvement in the construction and operation of the main frame and the rising and falling frame of a sofa-bed; and it consists, first, of lifting-rails journaled at each end to the side rails of the main frame, which are adapted to turn from a horizontal to a vertical position, and vice versa, thereby elevating or depressing the sinking frame within the body of the main frame, and in combination with the lifting-rails and a coupling-link pivoted to short arms attached to the lifting-rails, and a link-rod operated by crank-lever which is pivoted to the coupling-rod, and all located upon the inside of the main frame of the lounge and between it and the lifting-frame, so as to be concealed from view when the lounge is set up.

A second part of my invention consists in the construction of detachable interlocking slides of the peculiar construction herein set forth.

The object of the first part of my invention is to provide a cheap, reliable, and convenient means for operating the rising and falling rails, which can be located on the inside of the main frame, out of the way and concealed from view.

The object of the second part of my invention is to provide cheap slides, which in operation will hold the extension-frame in position and yet allow it to be readily detached from the main frame at pleasure, all of which will be more fully set forth in the description of the accompanying drawings, making a part of this specification.

In the accompanying drawings, Figure 1 represents a longitudinal sectional elevation of the main and sinking frame. Fig. 2 is a plan view of the parts shown in Fig. 1, with the sinking frame removed. Fig. 3 is an elevated plan of my improved slides.

A represents the back rail of the main frame of my improved sofa-bedstead. A' represents the front rail of the same. B represents an ordinary sinking frame. C represents the lift-

ing-rails. C' represents a journal-bracket, preferably made of cast-iron, into which the ends of the rails fit, as tenons in a mortise. C'' represents journal-boxes secured to the under side of the rails A A', in which the journals c'' c'' are supported and turn upon. c c represent short arms or ears cast upon the bracket C'. D represents a connecting-rod pivoted to the arms c c. E represents a link-rod pivoted at one end to the link D and short arm c, and at the other end to the crank-lever F. e represents the pivot-bolt of the crank-arm F. e' represents pivot-holes in the crank-arm F for adjusting the crank F to regulate the motion of the parts C D E. f represents the handle of the crank-arm F.

Fig. 1 shows the frame B in its elevated position for use as a bed. When crank-rod F is raised nearly to a horizontal position the links E D will turn the lifting-rails C backward into a horizontal position. The rails B of the sinking frame, resting upon the lifting-rails C, will descend by gravity with the lifting-rails C and be out of the way of the extension-frame, which then slides back over the sinking frame in position for use as a sofa. The construction of the frames A B and the method of upholstering them are such as are in common use.

G G' represent slides, preferably made of cast-iron, having hooks g g', which engage with each other to prevent the sofa-frame from being disconnected from the main frame when in common use. They are attached to the frame in the same manner as other slides. I represents the ledge or flange of the slides. In order to allow the slides to be disengaged, one of the slides attached to the sliding frame is made of the form represented by G'', in which a sufficient portion of the ledge I is cut away to form a space, I', between the ledge I and hook g'' sufficient to allow the hook g to be lifted out of the space I' just before the hook g has been pulled enough forward to lock with the hook g''. This slide G'' is preferably placed at the foot of the lounge. To disengage the frame slide G is lifted out of contact with the slide G'', as above described, and the sliding frame is then moved laterally toward the head, carrying the hooks g'' laterally out of contact with the hook g.

It is obvious that my improvements can be



used with lounges or sofas containing elevated rests at both head and foot.

A sofa-bed has heretofore been provided with a sinking frame, which is raised and lowered by means of pivoted lifting-bars, each having a crank at one end connected by a pitman-rod, and one of the cranks being extended to form a lever for operating the parts; but such does not constitute my invention.

10 I claim—

1. In a sofa-bed, the combination of the brackets C', having at or near their upper ends the ears c and at or near their lower ends the journals c'', arranged in boxes C'', the lifting-rails C, attached at their ends to the brackets, the connecting-rod D, attached to the ears c,

the link-rod E, connected at its lower end with the connecting-rod, and the lever F, pivoted upon the inside of the main frame and connected with the upper end of the link-rod, all substantially as described. 20

2. The combination of the slides G'' and G G', when the ledge I is cut away, to allow the parts to be disconnected, substantially as herein set forth. 25

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

AUGUST HENTSHEL.

Witnesses:

JNO. ELIAS JONES,  
EUGENE L. FIRNKOESS.