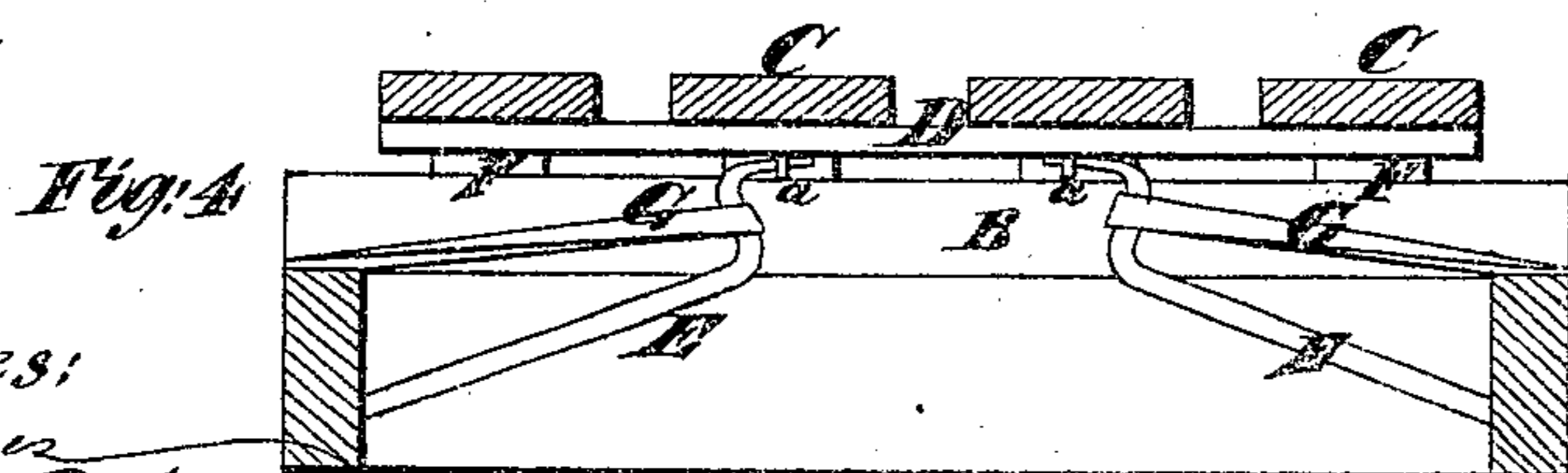
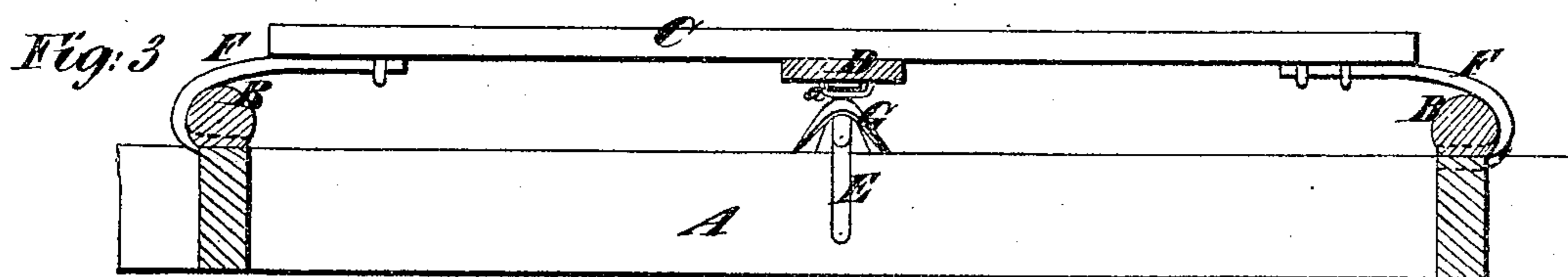
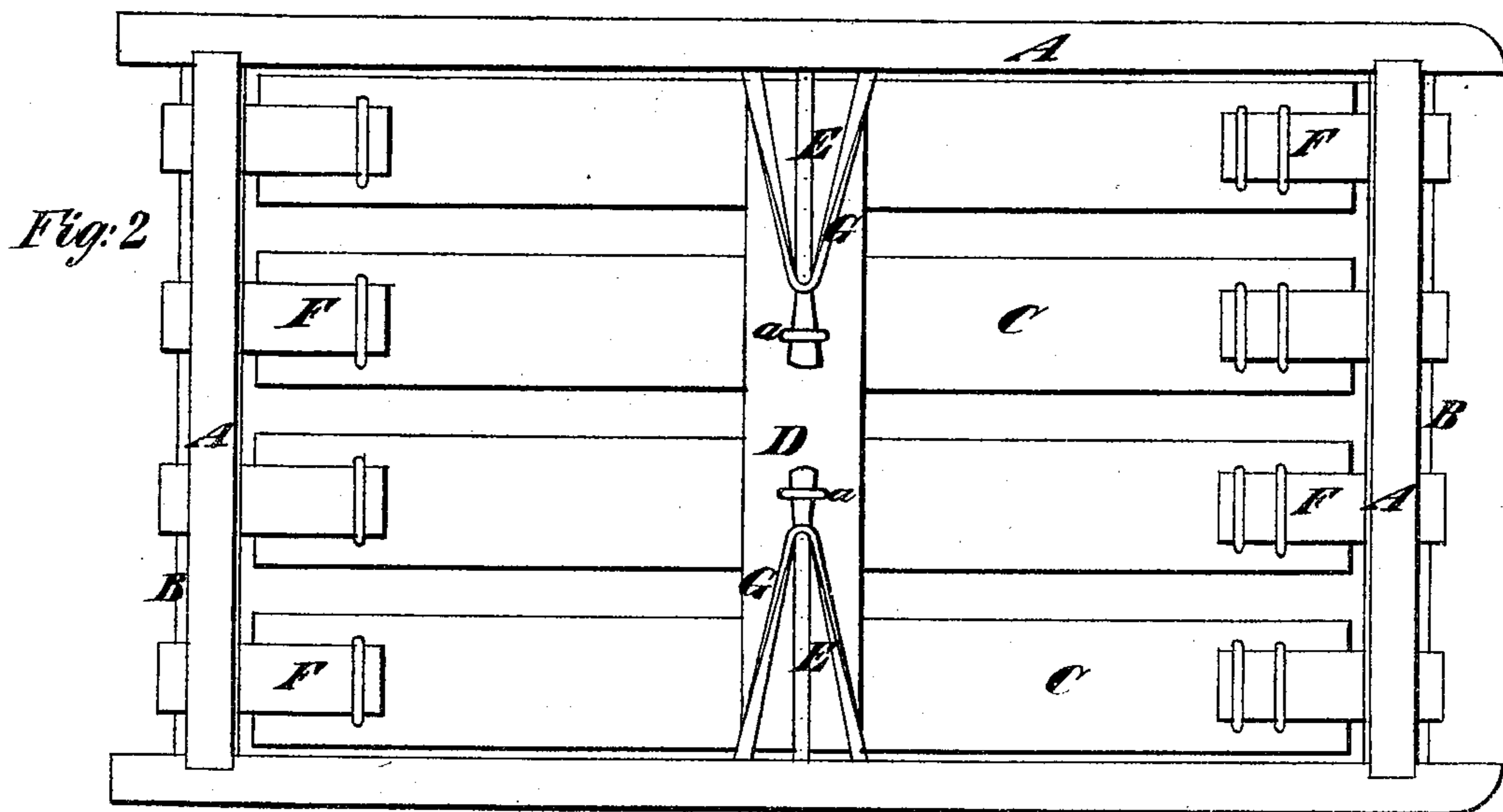
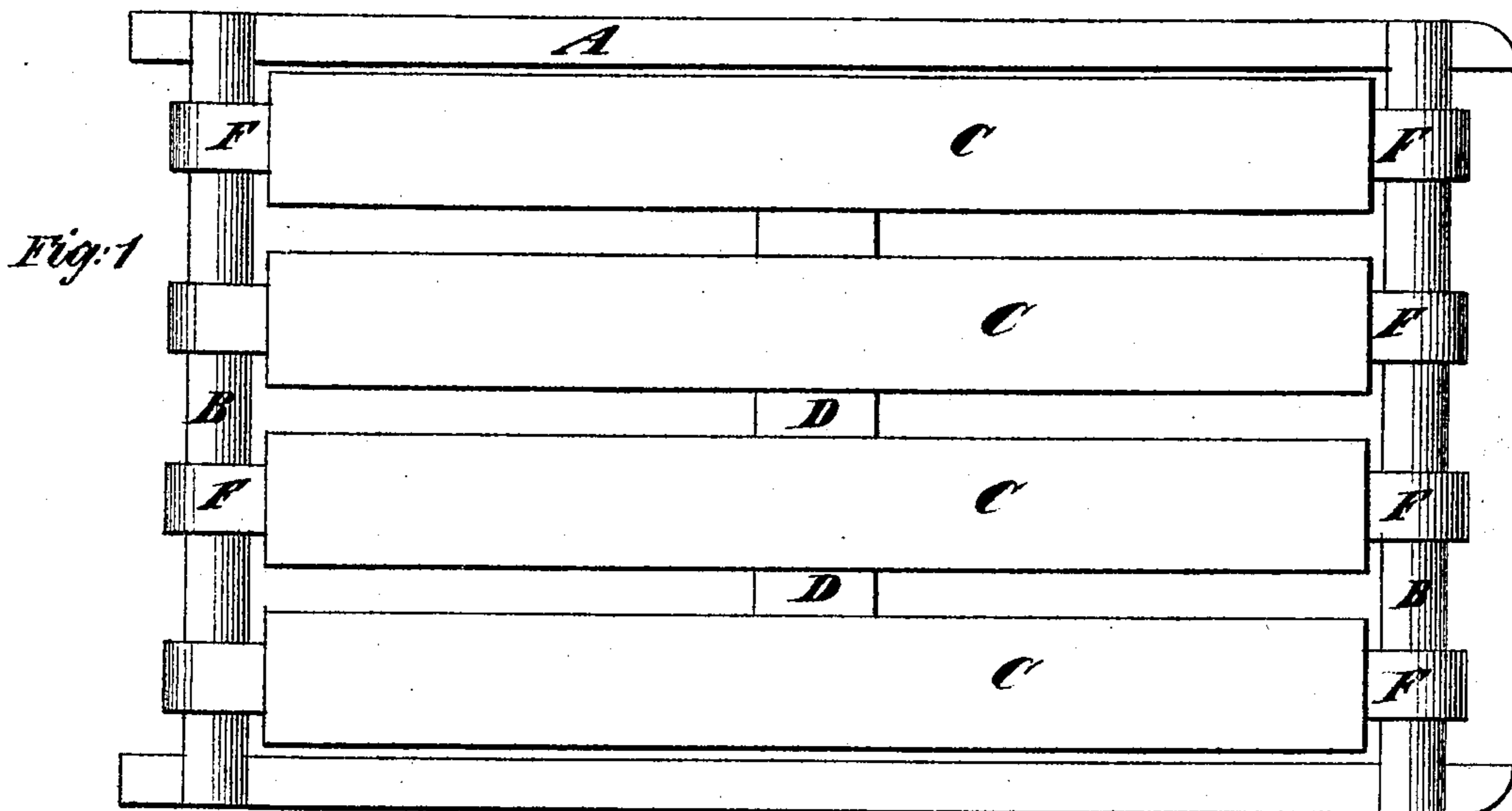


S. LANDGRAF.

Improvement in Spring-Bed Bottoms, &c.

No. 132,673.

Patented Oct. 29, 1872.



Witnesses:  
*Fred Turner*  
*Herb Lusch*

*Sebastian Landgraf*  
*per Romm & Allen attorneys*

# UNITED STATES PATENT OFFICE.

SEBASTIAN LANDGRAF, OF NEW YORK, N. Y.

## IMPROVEMENT IN SPRING BED-BOTTOMS, &c.

Specification forming part of Letters Patent No. 132,673, dated October 29, 1872.

*To all whom it may concern:*

Be it known that I, SEBASTIAN LANDGRAF, of the city, county, and State of New York, have invented an Improvement in Spring Bed Bottoms and Seats, of which the following is a specification:

This invention consists in a novel combination and arrangement of slats and springs whereby a good and durable bed-bottom is produced at a comparatively low cost, and whereby the disagreeable noises produced in ordinary spring bed-bottoms by the working of the springs is obviated.

In the accompanying drawing, Figure 1 is a plan or top view of a bed-bottom made according to my invention; Fig. 2 is an inverted plan of the same; Fig. 3 is a longitudinal section thereof; and Fig. 4 is a transverse section of the same.

Similar letters of reference indicate corresponding parts in all the figures.

A is the frame of the bed-bottom. It is of rectangular form, and has secured to the upper side of its transverse end pieces rails B B, from which the slats C C are supported. These slats C C are arranged lengthwise of the frame, and all connected by a cross-piece, D, and are furnished at their ends with India-rubber straps F F, which pass over the rails B, before alluded to, and are secured between them and the adjacent portions of the frame, and which constitute springs. E E are two springs or supports of stout steel or other metal wire, which are secured at one end to the sides of the frame A, and are bent so as to project under the cross-

piece D of the slats C C. The ends of these springs or supports work through metal loops *a a*, provided on the under side of the said cross-piece. India-rubber straps or springs G G, secured to the upper edge of the sides of the frame A, pass round the upper portions of the supports E E, and thereby tend to throw or hold them up so as to assist them in supporting the slats.

The weight of a person on the slats by depressing them depresses the supports E, and extends their springs G G, and also extends the elastic straps or springs F F, thereby taking up the strain in a very yielding manner. The slats, being supported at the middle as well as at the ends, render the bed-bottom much less likely to get out of order; but one of the most important features of the bed-bottom is its noiselessness when in use.

Though only illustrated in its application to bed-bottoms, the invention can be applied to a seat with equal advantages.

*Claim.*

The spring bed bottom or seat, composed of the slats C C, the metal springs or supports E E, the India-rubber springs G G and F F, the rails B B, and the frame A, combined and arranged substantially as and for the purpose herein set forth.

SEBASTIAN LANDGRAF.

Witnesses:

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