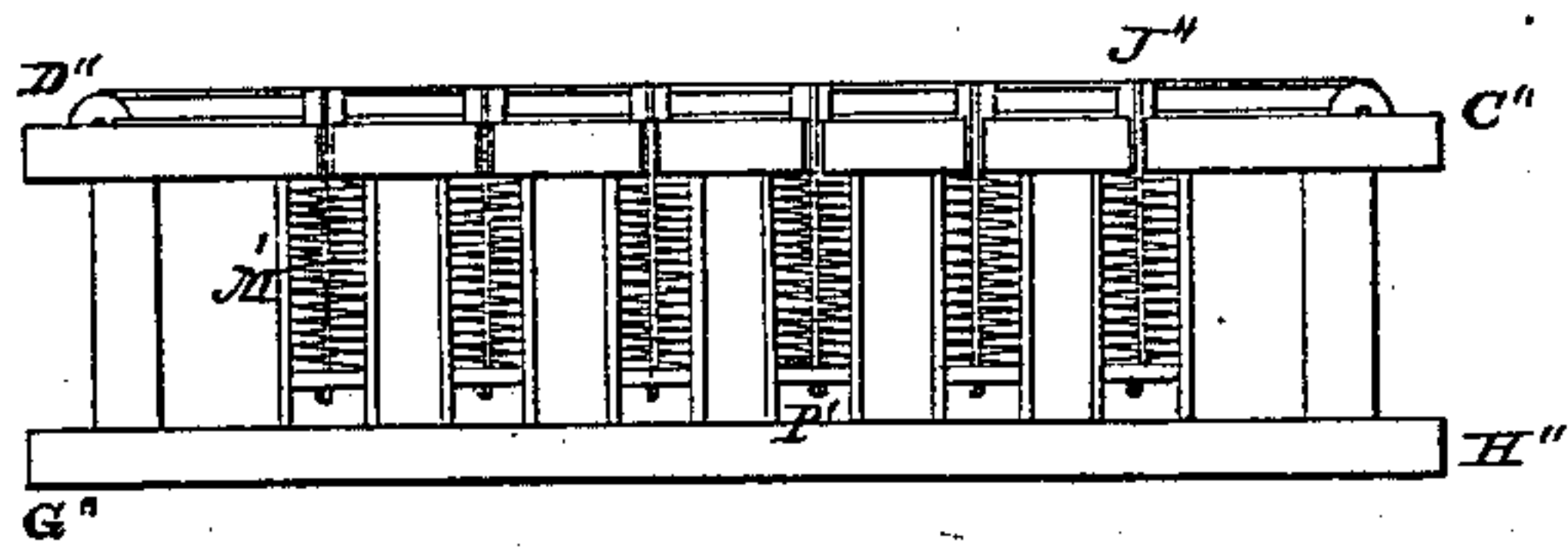
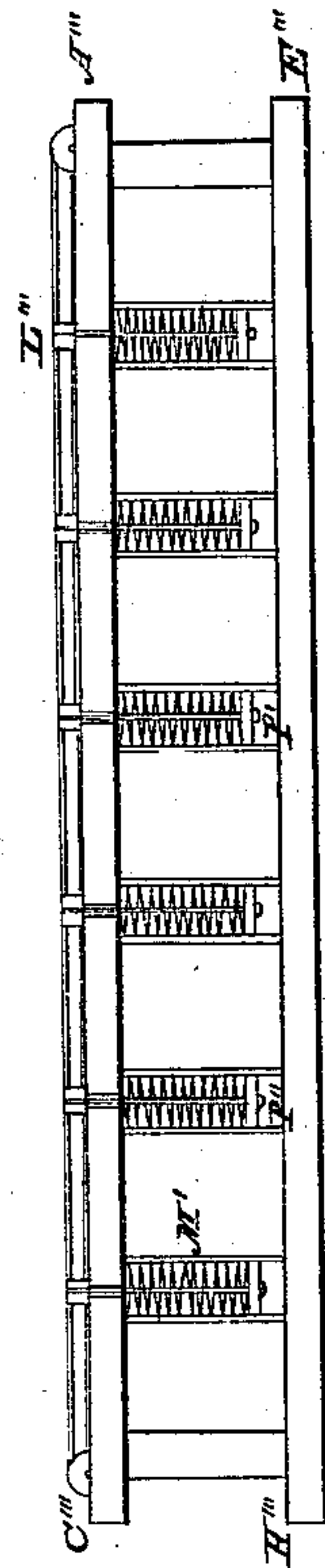
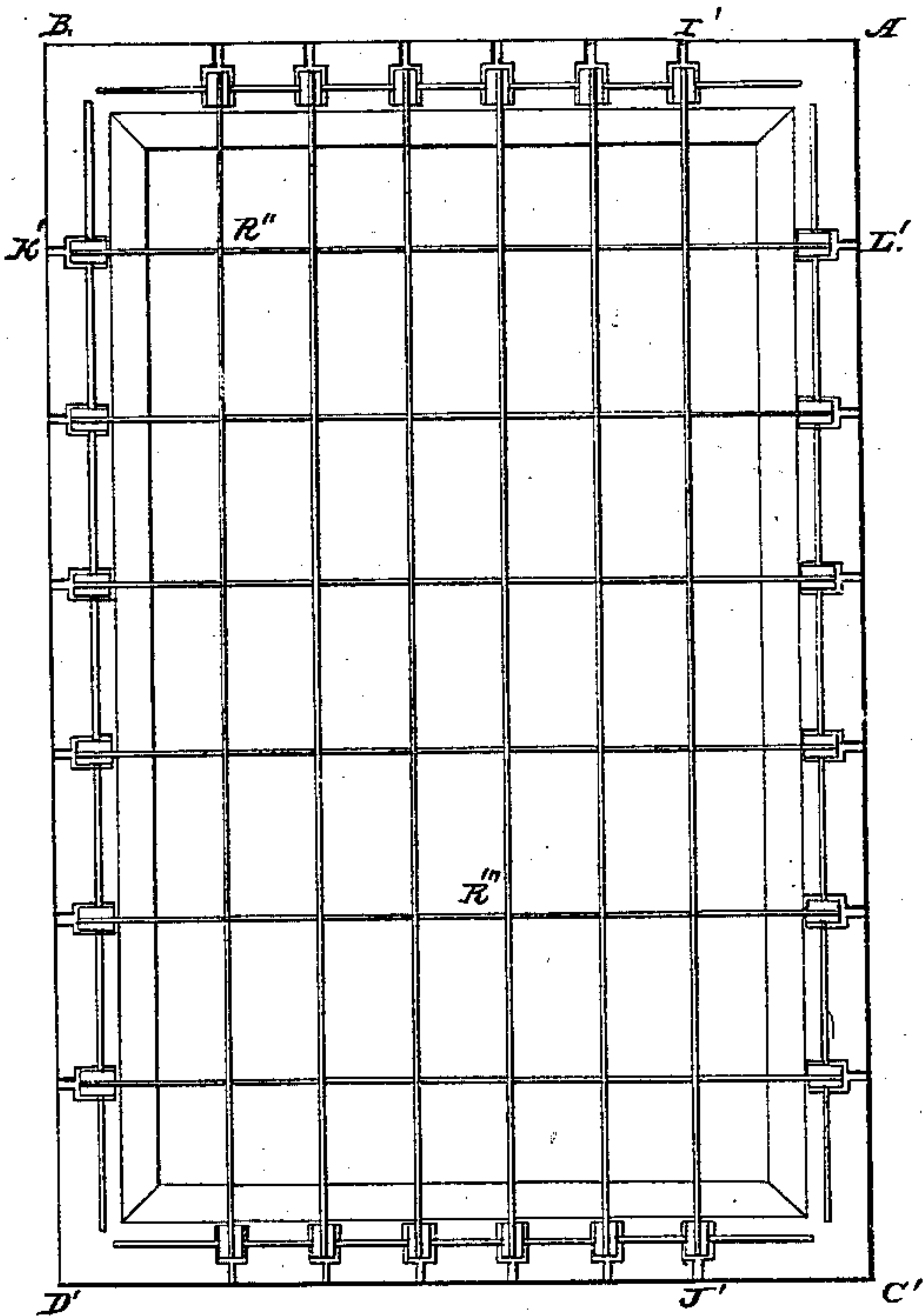
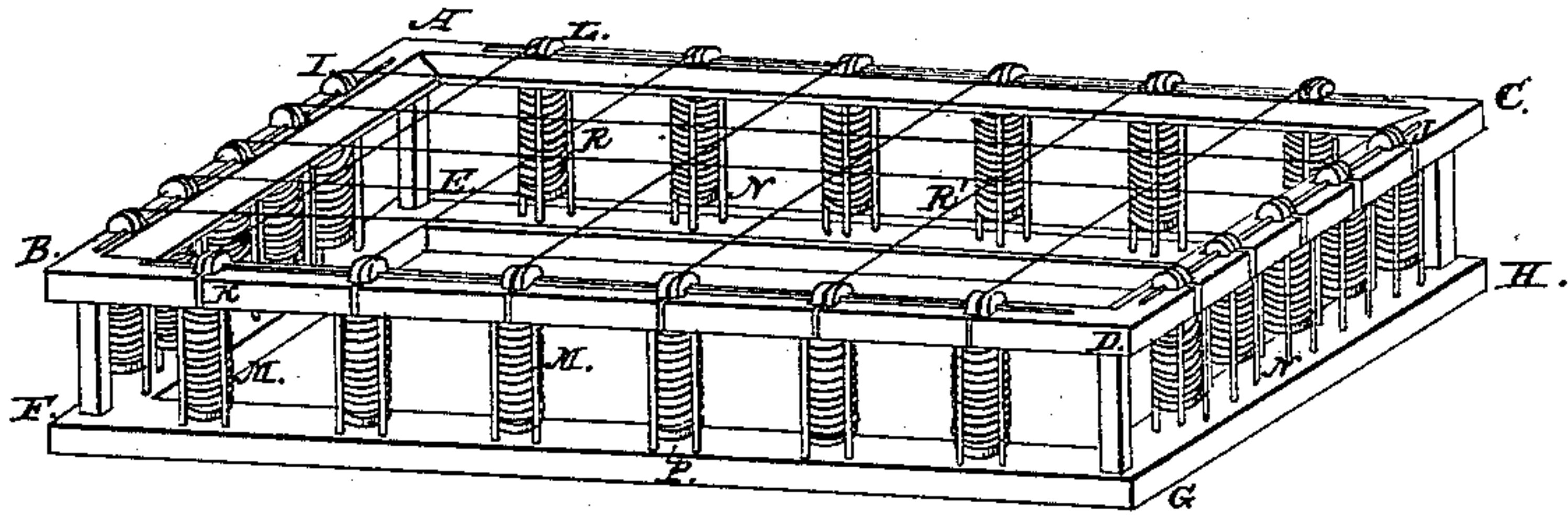


*G. A. Brown,*  
*Bed Bottom,*  
*N<sup>o</sup> 82,687,      Patented Oct. 6, 1868.*



*Witnesses:*  
*O. J. Lushill*  
*H. L. Bingham*

*Inventor*  
*George A. Brown.*

# United States Patent Office.

GEORGE A. BROWN, OF KALAMAZOO, MICHIGAN.

*Letters Patent No. 82,687, dated October 6, 1868.*

## IMPROVED SPRING-BED BOTTOM.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE A. BROWN, of Kalamazoo, and State of Michigan, have invented a new and improved Spring-Bottom for Beds, Sofas, Railroad-Car Seats, and other upholstery; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing the bed, sofa, railroad-car seat, or other thing desired, with a bottom of suitable dimensions, composed of a wooden framework combined with metallic spiral springs, cords, and pulleys, arranged and operated in such a manner as to fully accomplish and perform the object intended, and hereinafter claimed, set forth, and described.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct the framework from wood, proportioned, with reference to the article intended to bottom, into two similar parts, and arrange them in their positions, one above the other, a few inches apart, according to length and size of springs intended, supporting them by posts at each of the four corners, as shown in accompanying drawings at A, D, F, and H.

On the upper surface of the top frame I arrange pulleys, constructed from wood or metal, in number corresponding with the springs employed, and worked upon small metallic rods set in and running along the surface of the top frame, its sides and ends, as shown in the accompanying drawings, at I, J, K, and L.

Under the pulleys above specified, between the frames, I arrange the metallic spiral springs, coiled from wire, the length of which corresponds with the distance between the frames, the number, according to circumstances, from six to thirty, as the bottom intended requires, and support them, and retain them in their positions by three pins, hollow tubing, or their substitute, to each spring, which pins, or their substitute, are arranged so as to enclose the spring, attaching the frames at three sides of the springs, as shown at M M and N N, in accompanying drawings.

I construct buttons from wood, as an attachment of the cords, and arrange them underneath each spring, so as to slide up and down between the pins enclosing the springs, heretofore specified, as shown at P P' in accompanying drawing.

Over the top of the frame, lengthwise and across, I arrange cords, webbing, or their substitute, as best serves the purpose, over the pulleys opposite, on the frame, down through the springs, attaching to the buttons below by a knot, and so arrange them that when attached as above specified, the force of the springs operates upon them, making them taut across the frame, as shown at R R' in accompanying drawings.

I operate my invention by arranging its different parts as above specified, and, when used as a bed-bottom, the weight of the person lying on the cords or webbing above described, operates upon the springs, producing the desired results. And, when used as a bottom of a lounge, sofa, railroad-car seat, &c., as above specified, the operation of the springs is the same by the weight of the person in a sitting or lying posture, and the same results are had, viz, the spiral springs are drawn together in the coil from the bottom, to which the cord is attached by means of the button, the opposite ends of the springs bearing against the upper framework, the buttons slide up between the pins or their substitute, and recoil and return to their position again when the weight removes.

What I claim as my invention, and desire to secure by Letters Patent, is—

The application of spiral springs M M, combined with cords R R, and their attachment P P, and pulleys K L, and pins N N, when constructed and arranged substantially as herein set forth and described.

GEORGE A. BROWN.

Witnesses:

O. T. TUTHILL,  
F. C. HALL.