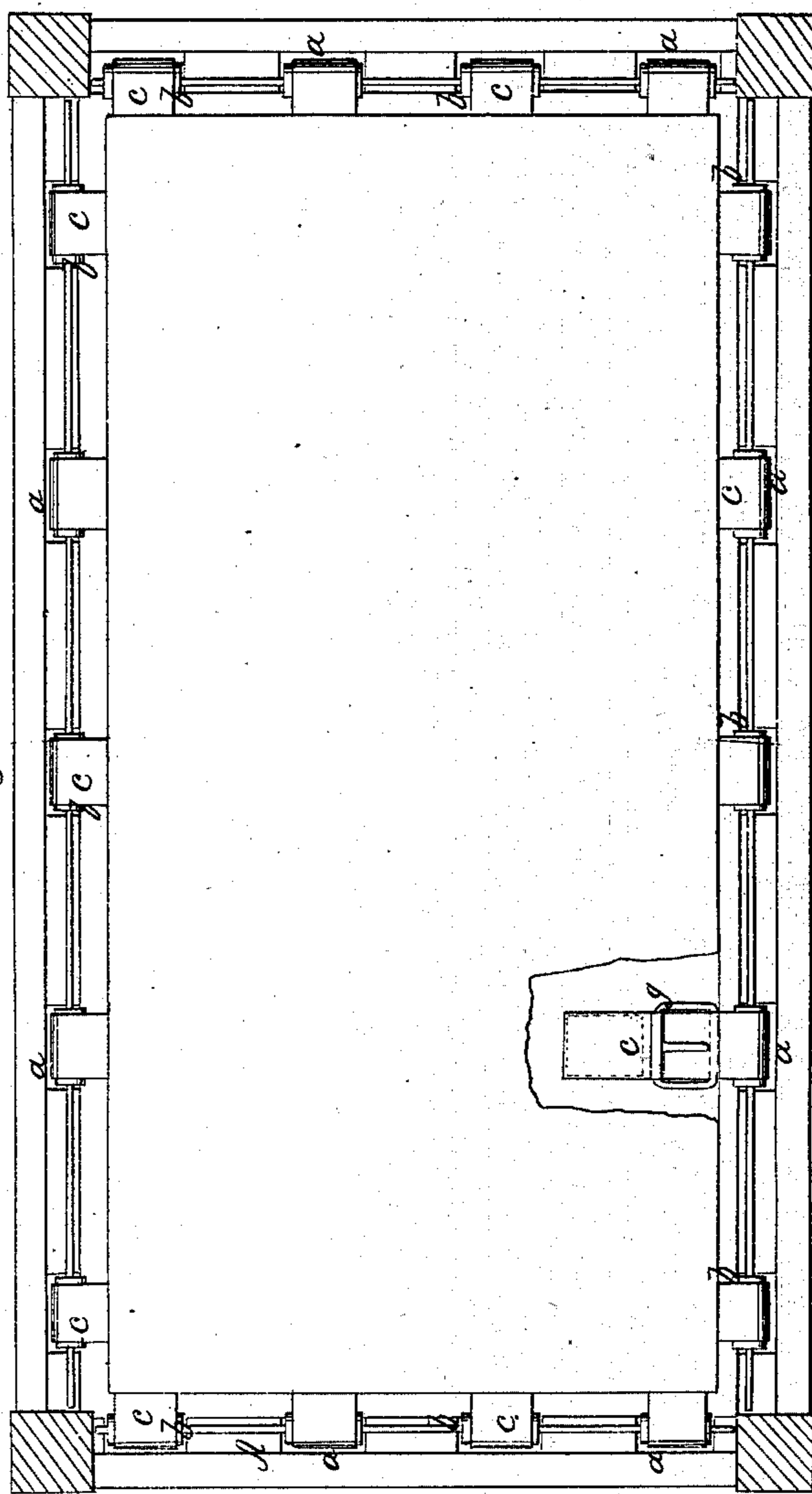
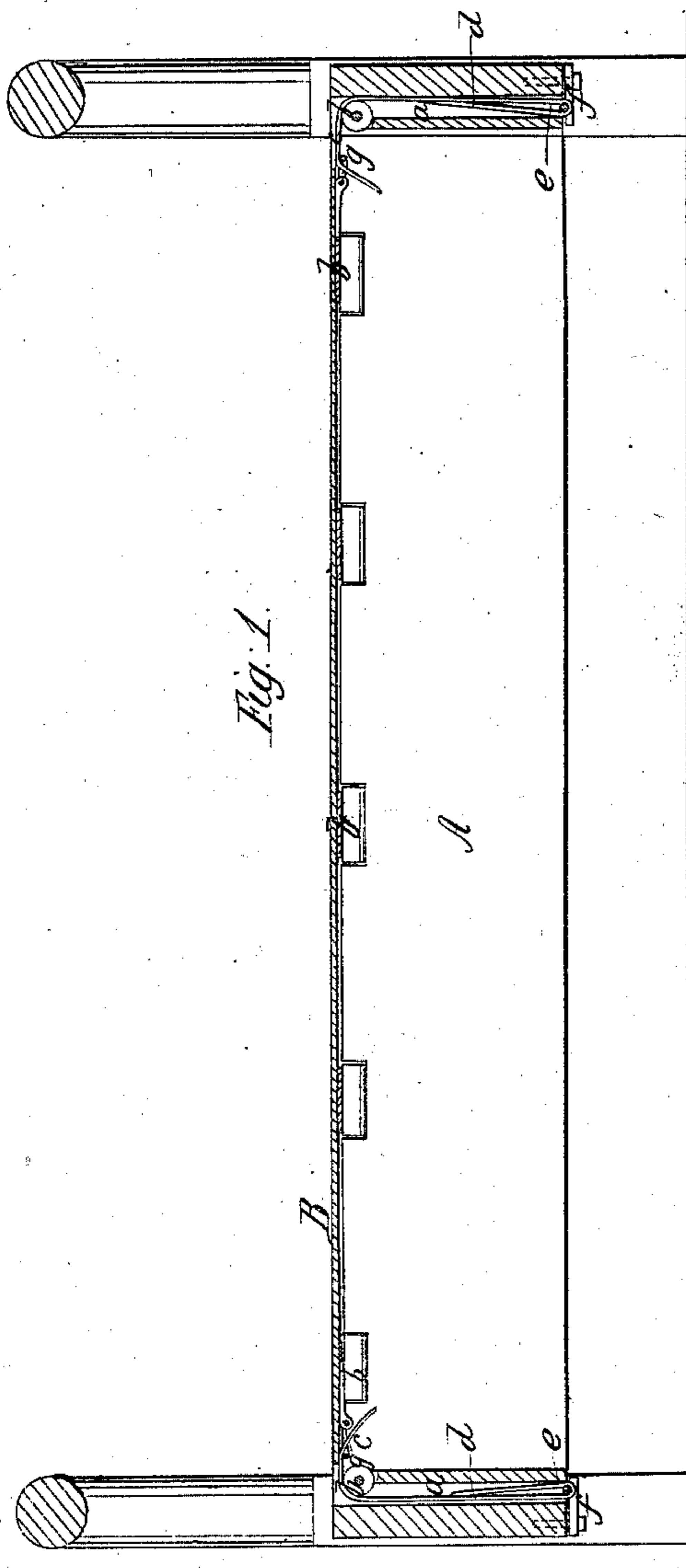


W. J. Haswell,

Bed Bottom,

N<sup>o</sup> 60,368.

Patented Dec. 11, 1866.



Witnesses;  
Geo. Tusch  
J. A. Service.

Inventor;  
W. J. Haswell  
Per *[Signature]*  
Attorneys

# United States Patent Office.

## IMPROVED BED BOTTOM.

W. J. HASWELL, OF WAVERLY, NEW YORK.

*Letters Patent No. 60,368, dated December 11, 1866.*

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, WILLIAM J. HASWELL, of Waverly, in the county of Tioga, and State of New York, have invented a new and Improved Spring Bottom for Beds, Seats, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art, to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a longitudinal vertical section of this invention.

Figure 2 is a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a bedstead or other frame the side and end pieces of which are slotted and provided with a series of rollers. Over these rollers are drawn a series of straps which connect at their upper ends with a piece of canvas or other suitable flexible material, and at their lower ends with springs retained by rods, which extend along the lower edges of the side and end pieces of the bedstead, being retained by suitable buttons. By these means a bottom for beds, chairs, sofas, &c., is obtained, the tension of which can be easily regulated and which is free to accommodate itself to the form of the body.

A represents a bedstead, the side and end pieces of which are perforated with slots or mortises, *a*, as shown in the drawing. To the top edges of these slots are secured a series of rollers, *b*, over which pass straps, *c*, and these straps are connected at their upper ends to the bed bottom, B, and at their lower ends to springs, *d*. The bed bottom, B, is formed of a piece of canvas or any other suitable flexible material and the springs are retained by rods, *e*, which extend along the bottom edges of the side and end pieces of the bedstead, and are retained by buttons, *f*. By turning these buttons the rods can be removed and the springs can be easily withdrawn. The straps, *c*, are provided with buckles, *g*, so that they can be lengthened or shortened and the tension of the bed bottom can be regulated. The bed bottom, B, being flexible and supported by a series of springs is free to accommodate itself to the form of the body of the person occupying the bed, and a cheap, durable, and convenient bed is obtained. It is obvious that this improvement is applicable to chairs, sofas, lounges, car-seats, and other articles of the same nature.

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

The springs *d*, passing down through mortises in the sides and ends of the bedstead or frame A, in combination with movable rods *e*, straps *c*, and the flexible bottom B, all constructed and operating substantially in the manner and for the purpose set forth.

Witnesses:

W. B. CAMPBELL,  
JOHN GORMAN.

WM. J. HASWELL.