

J. W. Wilder,

Bed Bottom.

N^o 70,663.

Patented Nov. 5, 1867.

Fig. 1

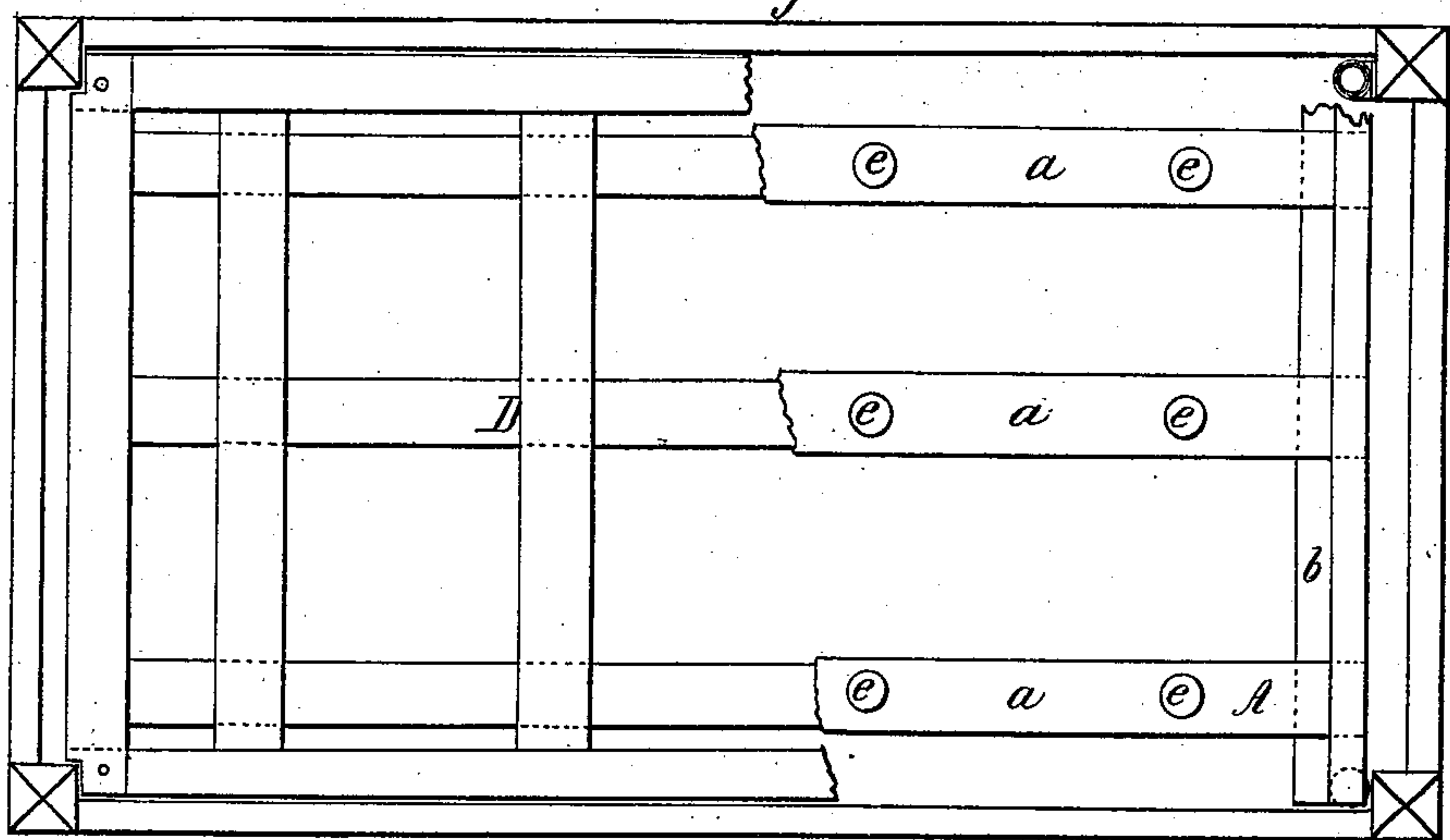
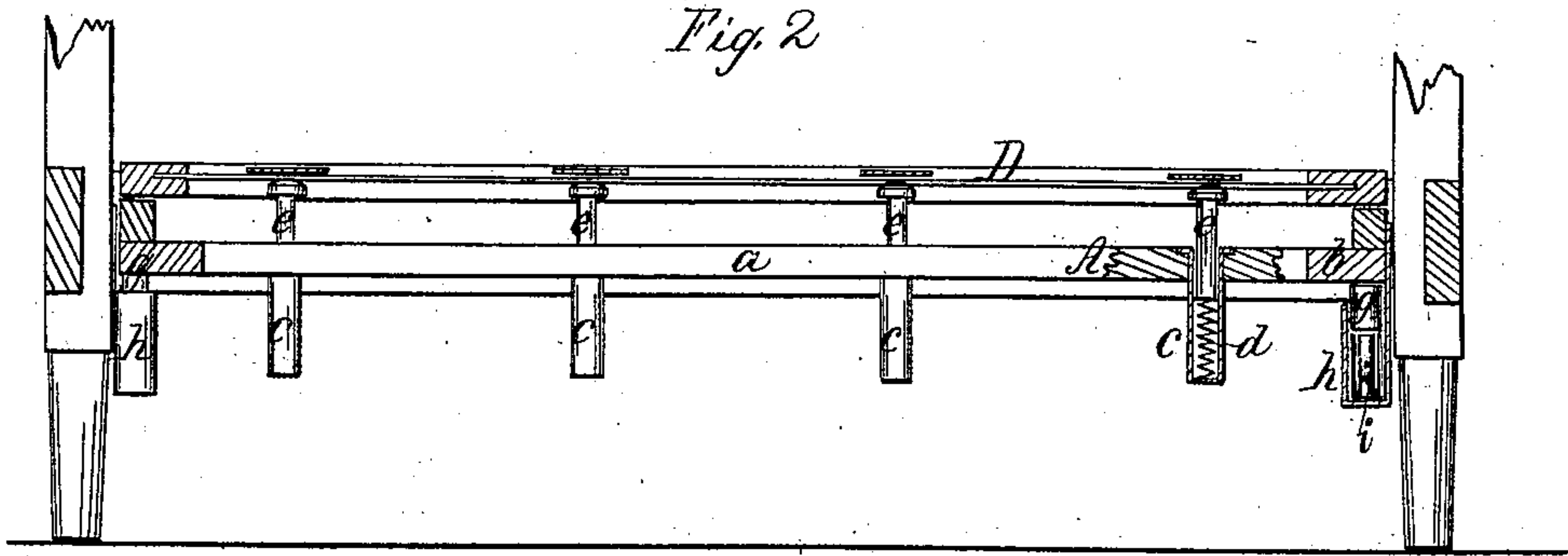


Fig. 2



Inventor

Witnesses
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J. W. WILDER, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND E. BUTTERICK, OF SAME PLACE.

Letters Patent No. 70,663, dated November 5, 1867.

IMPROVED 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, J. W. WILDER, of the city, county, and State of New York, have invented a new and improved Spring-Bottom for Beds, Seats, etc.; 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 plan or top view of this invention.

Figure 2 is a longitudinal vertical section of the same.

Similar letters of reference indicate like parts.

This invention relates to a spring-bottom, which is applicable to beds, seats of chairs, lounges, sofas, or any other article to which a spring-bottom may be applied.

It consists of a series of springs, which are enclosed in tubes, and acted on by plungers with large heads, on which the cushion, mattress, or other article is placed, either directly or with intervening slats, in such a manner that by the heads the cushion is preserved from being injured by the springs; and furthermore, the springs, by being enclosed in tubes, are prevented from tilting over, and consequently they are enabled to retain their power and elasticity for a long time. The tubes which enclose the springs are secured to a frame, the four corners of which are provided with plungers, fitting into tubes containing springs, in such a manner that the entire frame is rendered yielding, and an additional elasticity is imparted to the spring-bottom.

A represents a frame, composed of a series of longitudinal slats *a* and transverse slats *b*, which are united in any suitable manner. The slats composing this frame are provided with a number of sockets to receive the tubes *c*, which enclose the springs *d*. Said tubes are made of metal or any other suitable material, and they are open on top and closed at the bottom, so that the springs can be readily dropped into them. The springs are made of metal wire, ordinary spiral springs being used by preference, or they may be made of any other suitable material; and their length or height is such that when the same are inserted in the tubes *c*, room is left for the lower ends of the plungers *e*. These plungers are made of wood or any other suitable material, and they are placed loosely on the springs, as clearly shown in fig. 2 of the drawing. The upper ends of said plungers are provided with round heads, which may be made of any suitable size, and which serve to support the cushion or mattress. Instead of placing the cushion or mattress directly on the heads of the plungers *e*, a frame, *D*, may be interposed, which is provided with flexible or elastic slats, or with a net-work of webbing, and in this case the heads of the plungers may be made quite small; but if the intermediate frame is not used, the heads of the plungers must be made sufficiently large to present a good bearing surface, and they may be made as large as the space between them will permit. In either case, that is to say, whether the intermediate frame *D* be used or not, the springs are prevented from wearing out the covering of the cushion. By the tubes the springs are always kept in an upright position, and they are prevented from tilting over, and the plungers can be readily so arranged that the same do not allow of compressing the springs beyond a certain point, so that the same will retain their elasticity for a long time. If desired, the plungers *e* might be secured to the frame *A*, and the tubes so arranged that they support the intermediate frame *D*, or the cushion or mattress. This arrangement I consider an equivalent of the arrangement above set forth. The frame *A* is provided at its corners with plungers *g*, which work in tubes *h*, secured to the bedstead, or to the main frame of the furniture in which my bottom is to be used. Said tubes contain springs *i*, of India-rubber or other suitable material, and by these means the frame *A* is rendered yielding, and the elasticity of the spring-bottom is materially increased.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The spring-bed bottom, constructed as described, consisting of the rectangular frame *A*, the slats *a b*, which are provided with metallic tubes *c*, enclosing springs *d*, which support the plungers *e*, having rounded heads, upon which the flexible slats of the rectangular frame *D* rest, substantially as described, for the purpose specified.

The above specification of my invention signed by me this 23d day of July, 1866.

J. W. WILDER.

Witnesses:

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