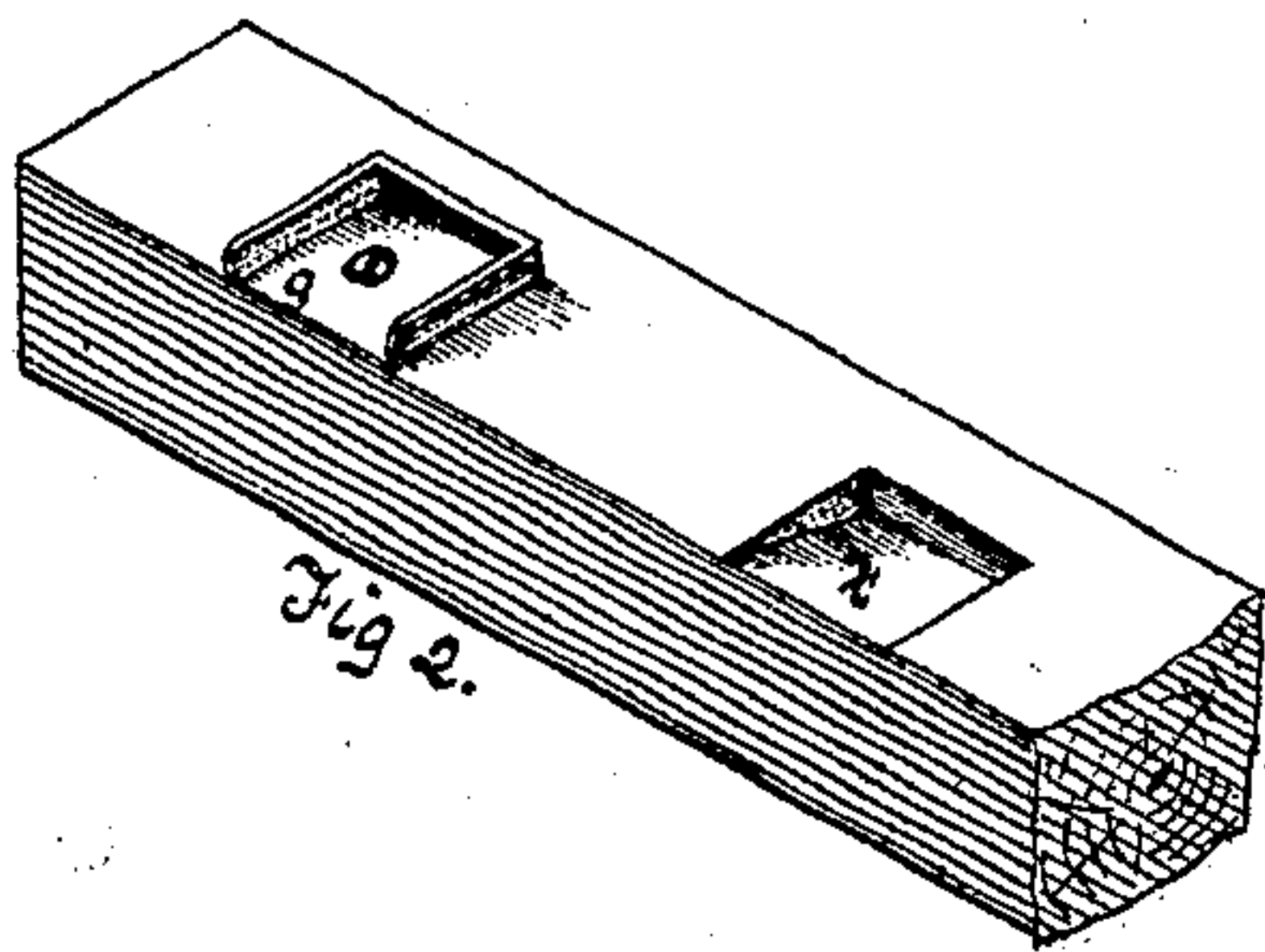
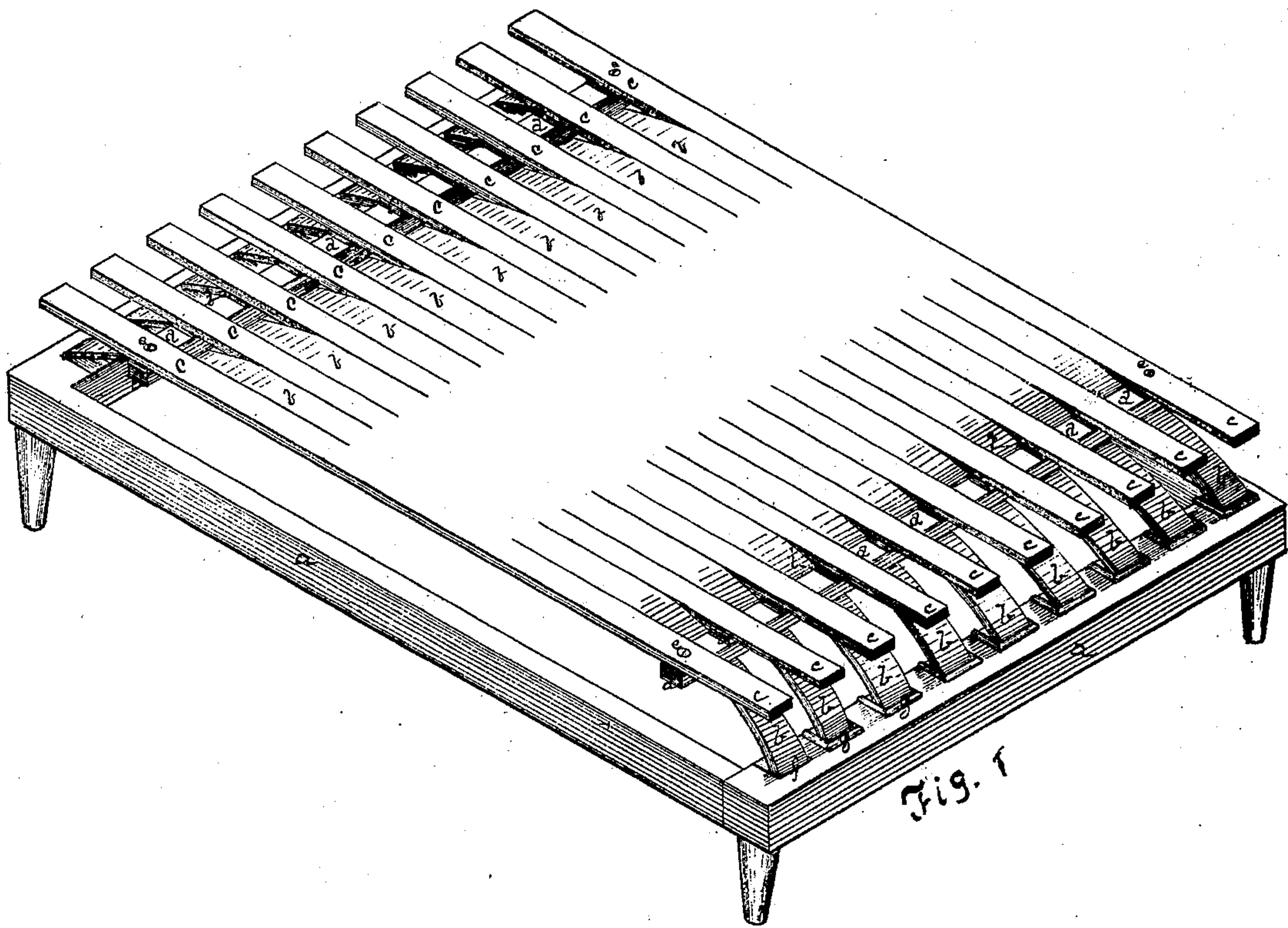


*C. Glenn,*

*Feed Bottom.*

*No. 109889*

*Patented Dec. 6, 1870.*



*Witnesses:*

*Thos Kerr*

*R. O. Wenshall*

*Inventor:*  
*Charles Glenn,*  
*by Batewell & Knisly,*  
*his Atlys.*



# United States Patent Office.

CHARLES GLENN, OF ALLEGHENY CITY, PENNSYLVANIA.

Letters Patent No. 109,889, dated December 6, 1870.

## IMPROVEMENT IN SPRING BED-BOTTOMS.

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, CHARLES GLENN, of the city of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Spring Bed-Bottoms; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a perspective representation of my improved spring bed-bottom.

Figure 2 is a perspective view of a section of one of the bedstead-rails.

My improvement consists in making the bed-bottom of strips or slats of sufficiently hard and elastic wood, united together or in one piece at or near the middle of the bed-bottom, and separated toward the head and foot of the bed, some of the slats (preferably alternate ones) being arched so that their extremities support the bottom, and the other slats being flat, or only slightly arched, so as to form the bottom for the bed, the latter being supported by means of a cross-strip near each end, interposed between the alternate slats so as to be above the arched slats and below the others.

In fig. 1—

*a* represents the bedstead, on which the bed-bottom is placed.

The spring bottom is made of any kind of wood possessing sufficient strength and elasticity. The board out of which it is to be made may be of uniform thickness throughout, and is sawed down from either end toward the middle into narrow strips or slats, *b c b c*, &c., of uniform width, a portion in the middle, extending across the bed, being left whole. The kerf or space between the slats should be wide enough to prevent the slats touching each other at the edges.

The piece thus cut is steamed and pressed, in any usual manner, so as to turn down both extremities of each alternate slat *b* into the shape of a circular or elliptical arc, giving as much spring to the arc as may be desired. The other slats, *c*, are either left flat, or preferably may be slightly curved in the same direction.

By the process of steaming and pressing, as is well known, the wood will retain this shape when dry.

A transverse strip of wood, *d*, of the same length as the width of the bed-bottom, is then placed between the alternate slats *b* and *c*, and pressed up toward the middle of the bed-bottom, one such strip being inserted from each end.

These strips *d* are pressed up more or less near to the middle of the bed as may be desired, the degree of spring of the bottom being regulated by the position of the transverse strips, which are fastened by a bolt or pin, *e*, at each end to the outside slats.

A piece of cork, India rubber, or other similar substance, *i*, fastened to the cross-strip or to each slat, is interposed between the slats and the transverse strips *d*, to prevent a creaking noise when the bed-bottom springs.

The bed-bottom may be made of one piece of wood, or of several pieces placed side by side, which will be kept in position to the transverse strip *d*, or, if preferred, by screwing the separate pieces to an additional cross-piece placed under the bed-bottom.

The extremities of the arched slats *a* rest on the rails, at the head and foot of the bedstead, in mortises *f* cut therein, or in metallic shoes, *g*, screwed on the rails of the bedstead, or let into mortises therein. The bottom of these shoes *g* or mortises *f* (if shoes are not used) are lined with cloth, leather, or other suitable substance, to prevent a creaking noise.

The advantages of this improvement are: great simplicity and cheapness of construction, and great uniformity of spring, combined with increased elasticity. They are also very easily cleaned, and are not liable to get out of order.

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

The slats *b* and *c*, forming one piece or united at the middle, in combination with strips *d*, arranged transversely between, forming a spring bed-bottom, substantially as described.

In testimony whereof, I, the said CHARLES GLENN, have hereunto set my hand.

CHARLES GLENN.

Witnesses:

J. B. WILSON,  
R. C. WRENSHALL.