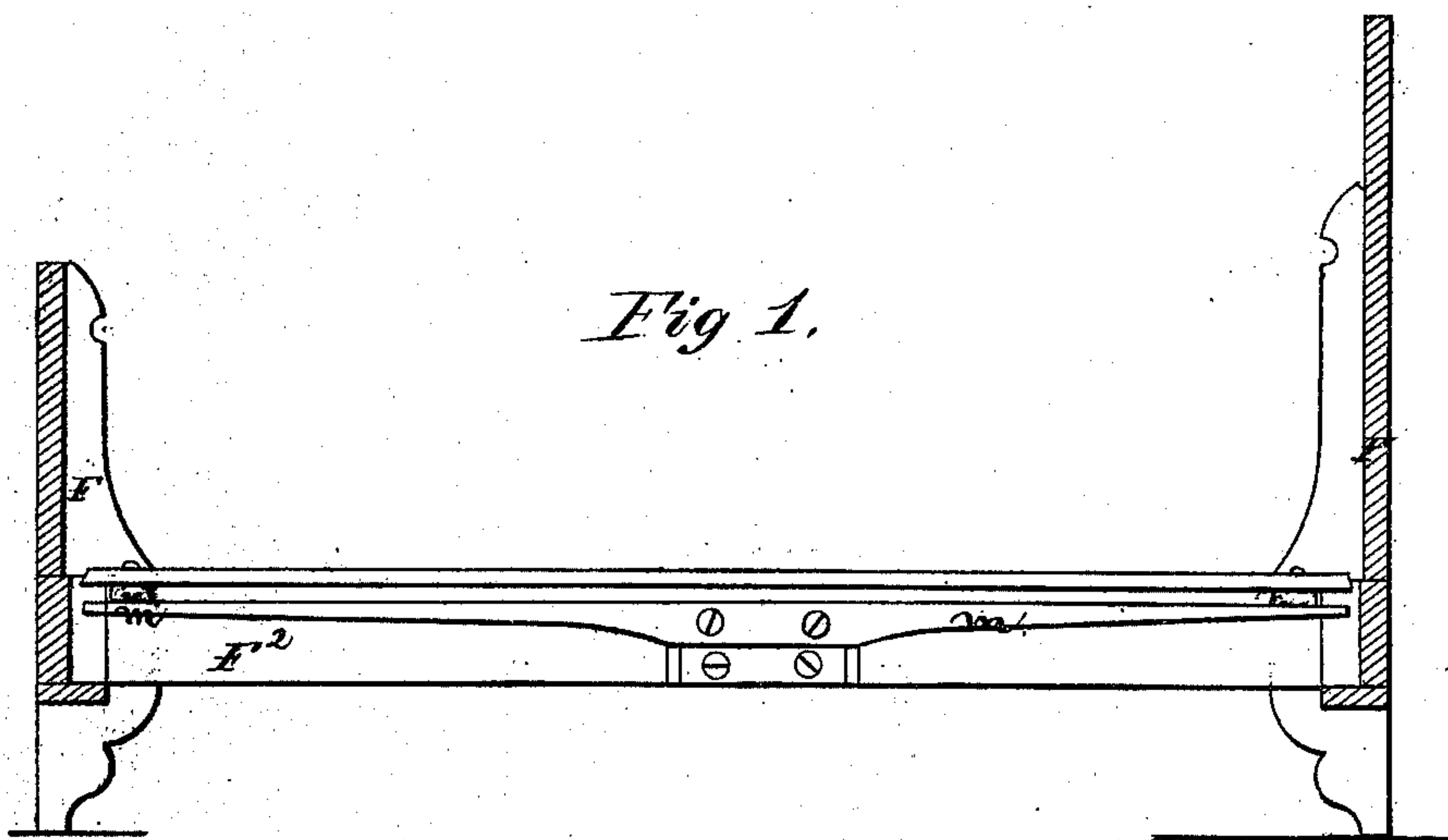


Geo. O. Capen,

Bed Bottom.

No. 103138.

Patented May 17, 1870.



Witnesses,

Isaac A. Brunell

Robert Barker

Inventor,

Geo. O. Capen

United States Patent Office.

GEORGE O. CAPEN, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR, BY MESNE ASSIGNMENT, TO STEPHEN A. BARKER, OF SAME PLACE.

Letters Patent No. 103,138, dated May 17, 1870.

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 O. CAPEN, of the city and county of Providence and State of Rhode Island, have invented a new and Improved Spring-Bed-Bottom ; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a vertical section of a bedstead, with my improved spring bottom ; and

Figure 2 is a plan of the same.

Similar letters indicate corresponding parts in all the figures.

My invention consists of a set of slats upon two cross-pieces at their ends, and two long side springs in combination, said side springs being secured near their middle to the sides of the bedstead-frame, with the free ends extending each way toward the head and foot of the bed, upon which ends rest the two cross-pieces which support the slats or bottom upon which the mattress rests.

In the said drawings—

F is the frame of the bedstead, the two side pieces being marked F².

To the latter are attached, upon the inside, two spring pieces *m m*, by screws or bolts *a a*, fig. 1.

These springs may be either of wood or metal, but I prefer to make them of some springy wood, such as ash, hickory, or other kind.

The springs of either taper from the portion near the middle, where they are secured, to their ends, and an additional support may be employed at the middle by a block of wood, E, screwed or bolted firmly to

the side piece F², to prevent the spring piece *m* from sagging. The said spring pieces are secured at a position nearer to the head than to the foot of the bedstead, in order to make the springs that support the body of the occupant of the bed stiffer, and capable of supporting the greater weight than the lower extremities of the body.

The slats, or bottom frame, D D, of the bedstead are supported upon the two cross-pieces G G, at each end thereof, to which they may be secured by pins *e e*, &c. The two ends of the cross-pieces rest upon the free ends of the springs *m m*, so that this entire frame is subjected to the elastic action of these springs.

A bed-bottom thus constructed, besides the extreme elasticity which is derived from the unusual range of action of the long springs *m m*, is cheap, durable, and cleanly, and can readily be made by the most ordinary wood workman.

Having described my invention,

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

The two side springs *m m*, having their ends free in space, in combination with the bottom frame D D, and its cross-pieces G G, the latter resting on the free ends of the springs, substantially as shown and described.

In testimony whereof I have hereunto subscribed my name this 19th day of October, 1869.

GEO. O. CAPEN.

Witnesses:

ISAAC A. BUNNELL,
ROBERT BARKER.