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Patented June 17, 1902.

P. B. ROONEY.

BED BOTTOM.

(Application filed Feb. 1, 1902.)

(No Model.)

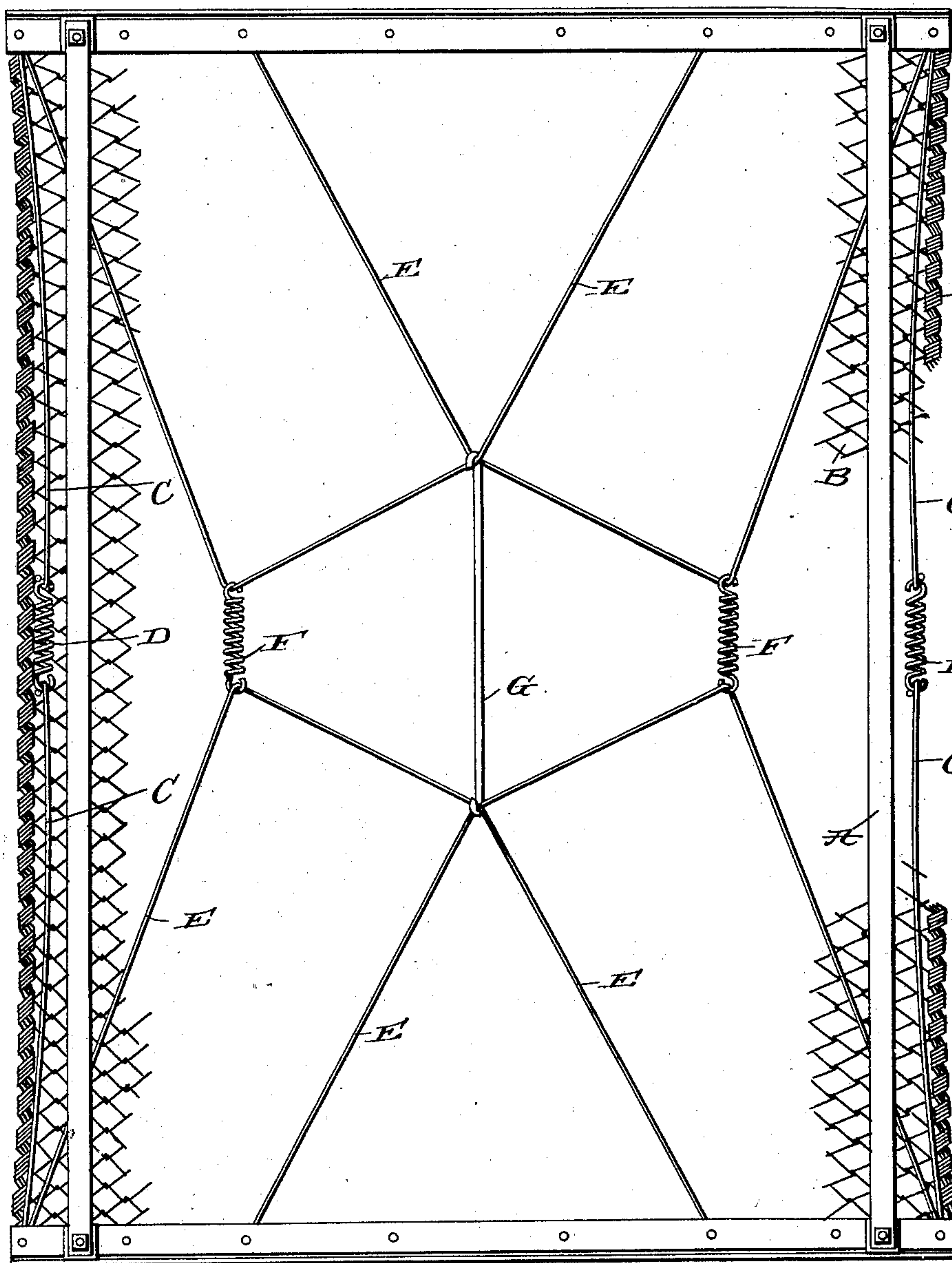


Fig. 1.

Fig. 4.



E'

Fig. 2.



Fig. 3.



Witnesses
H. Baeder
N. C. Healy

Inventor
By *P. B. Rooney*
James Shuch Attorney

UNITED STATES PATENT OFFICE.

PATRICK B. ROONEY, OF NEW YORK, N. Y.

BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 702,485, dated June 17, 1902.

Application filed February 1, 1902. Serial No. 92,191. (No model.)

To all whom it may concern:

Be it known that I, PATRICK B. ROONEY, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Bed-Bottoms, of which the following is a specification.

My invention relates to that class of bed-bottoms which comprise woven-wire fabric and a support therefor; and it has for its general object to provide such a bed-bottom embodying a simple, inexpensive, and light support and one which is calculated to effectually prevent undue sagging of the fabric and at the same time add to the springiness of the bottom.

With the foregoing in mind the invention will be fully understood from the following description and claims when taken in conjunction with the accompanying drawings, in which—

Figure 1 is an inverted plan view of a bed-bottom constructed in accordance with my invention, the same being shown with the woven-wire fabric partly broken away. Figs. 2 and 3 are views of modified connections designed to be employed in the support in lieu of the longitudinal central rod. Fig. 4 is a detail view of a portion of elastic-wire cable, which may be employed in lieu of the solid-wire cable shown in Fig. 1 when desired.

Referring by letter to the said drawings and more particularly to Fig. 1 thereof, A is a bed-bottom frame, preferably of metal; B, the woven-wire fabric connected to the end bars of and arranged above the frame and having, by preference, the usual selvage edges *a*; C C C, longitudinal rods connected at their outer ends to the end bars of the frame and extending through or otherwise connected to the meshes of the fabric B adjacent to the edges *a* thereof; D D, normally expanded coiled springs connecting the inner ends of each pair of rods C and serving in conjunction with the same to prevent undue sagging of the side edges of the fabric, and E, F, and G the cables, the normally expanded longitudinal coiled springs, and the longitudinal central rod, respectively, of my improved support. The cables and the longitudinal central rod are preferably of wire, and the rod, which is, by preference, of a slightly larger

caliber than the cables, is provided at its ends with hooks or eyes, as are also the springs F. There are four of the cables E, and each is disposed as shown in the drawings—that is, it is connected at one end to one end bar of the frame at or adjacent to one end of said bar and is carried inwardly in a longitudinal oblique direction and through one hook or eye of one spring F, then in a transverse oblique direction and through one hook or eye of the rod G, and then in a longitudinal oblique direction back to the said end bar, to which its other end is connected at a point intermediate of the middle of the bar and the end thereof opposite to that first mentioned. From this it will be seen that the cables form a pair of loops at each end of the bed-bottom, that the inner legs of the loops of each pair intersect each other and are connected at the point of intersection by the rod G, that the points of intersection of the inner legs of one pair of loops are connected with the points of intersection of the inner legs of the other pair by the rod G, and that the bights of the loops of one pair are connected with the bights of the corresponding loops of the other pair by the coiled springs F at points intermediate of the rod G and the side edges of the fabric. The result is a simple and inexpensive support calculated to prevent undue sagging of the fabric at any point, and thereby prolong the usefulness of the bottom, and one which adds greatly to the springiness of the bottom.

I prefer to employ the link or rod G for connecting the points of intersection of the inner legs of one pair of loops with the points of intersection of the inner legs of the other pair of loops; but I do not desire to be understood as confining myself to the rod or link for such purpose, as other connections—such, for instance, as a coiled spring, a chain, or the connections shown in Figs. 2 and 3—may be employed when desired. The connection shown in Fig. 2 comprises a metallic strip G^2 and coiled springs F^2 at the ends of the strip, having hooks for engaging the cables E, while the connection shown in Fig. 3 comprises two metallic strips G^4 , connected by an interposed coiled spring F^4 , and hooks F^6 at the outer ends of said strips adapted to engage the cables E.

The cables of my improved support may be of any material suitable to the purpose without departing from the scope of my invention, although I desire to form them either
5 of solid wire, as shown in Fig. 1, or of the elastic wire E' shown in Fig. 4.

The rods C and springs D form no part of my present invention, and hence might be omitted without departing from the scope
10 thereof. I prefer, however, to employ said rods and springs, since by preventing undue sagging of the side edges of the fabric they add to the strength and durability of the fabric.

15 I have entered into a detailed description of the construction and relative arrangement of parts embraced in the present and preferred embodiments of my invention in order to impart a full, clear, and exact understanding of the same. I do not desire, however,
20 to be understood as confining myself to such specific construction and arrangement of parts, as such changes or modifications may be made in practice as fairly fall within the
25 scope of my claims.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a bed-bottom, the combination of a

frame, a fabric connected thereto, and a fabric-support comprising looped cables connected in pairs to opposite bars of the frame and arranged so that the inner legs of each pair intersect each other, a connection between
30 the intersecting portions of one pair of the cables and the intersecting portions of the other pair, and connections between the bights of the cables of one pair and the bights of the corresponding cables of the other pair.

2. In a bed-bottom, the combination of a
40 frame, a fabric connected thereto, and a fabric-support comprising looped cables connected at their ends and in pairs to opposite bars of the frame and arranged so that the inner legs of each pair intersect each other, a connection between the intersecting portions of
45 one pair of the cables and the intersecting portions of the other pair, and coiled springs connecting the bights of the cables of one pair and the bights of the corresponding cables of the other pair.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

PATRICK B. ROONEY.

Witnesses:

JACOB G. COHEN,
ARTHUR G. HILL.