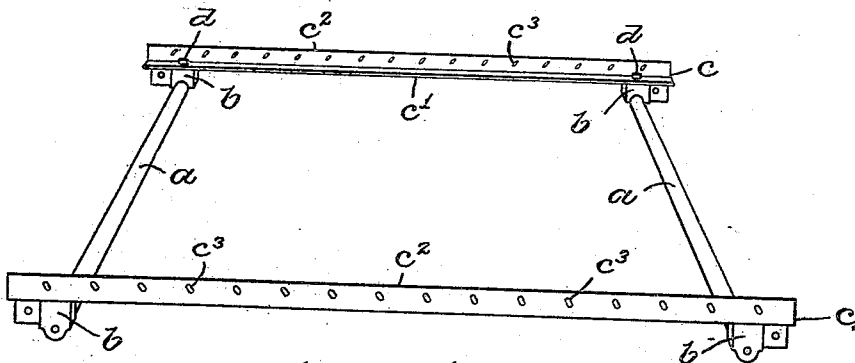
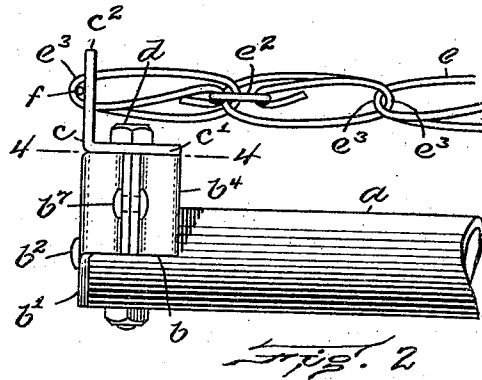
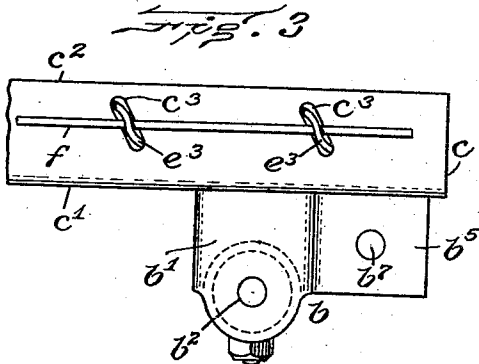
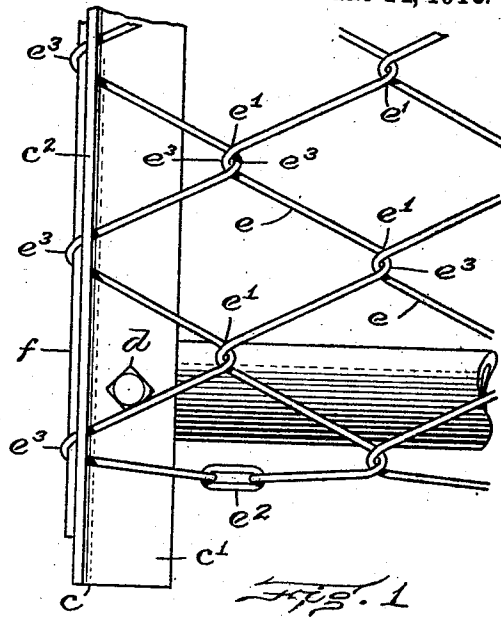
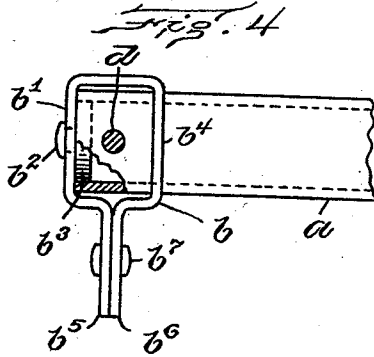


G. MAFERA.
 SPRING BED BOTTOM.
 APPLICATION FILED DEC. 30, 1907.

961,147.

Patented June 14, 1910.



Witnesses:
 Walter P. Abell
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UNITED STATES PATENT OFFICE.

GUY MAFERA, OF BOSTON, MASSACHUSETTS.

SPRING BED-BOTTOM.

961,147.

Specification of Letters Patent. Patented June 14, 1910.

Application filed December 30, 1907. Serial No. 408,473.

To all whom it may concern:

Be it known that I, GUY MAFERA, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Spring Bed-Bottoms, of which the following is a specification.

This invention has relation to spring bed bottoms and relates more particularly to that class in which the fabric consists of a series of interlocked elliptical or relatively flat helices.

On the accompanying drawings, Figure 1 represents in plan view a portion of a bed bottom embodying the invention. Fig. 2 represents a side elevation of the same. Fig. 3 represents an end elevation. Fig. 4 represents a section on the line 4—4 of Fig. 2. Fig. 5 represents the frame.

Referring to said drawings, I have shown in Fig. 5, a convenient form of frame which may be utilized in connection with the invention. It consists of side bars *a a* which are tubular and which may be made of gas pipe. Each end of each side bar has a clip or hollow connecting block indicated as a whole at *b*. This clip or block is made of sheet metal. It consists of an end plate *b'* which fits against the end of the bar, and it has attached to it by a rivet *b²*, a disk *b³* which fits within the end of the side bar. The plate is bent into rectangular form so as to provide a portion *b⁴* which has a concave lower edge so as to fit and rest upon the bar as shown in Figs. 2 and 4. The ends of the plate are brought together, as shown at *b⁵* *b⁶*, and are connected by a rivet or other fastening *b⁷*. The plate forms, as it were, a yoke, one arm of which rests upon the side bar and the other arm of which is in front of the bar with the disk *b³* fitting into the aperture therein. Upon the clips or hollow blocks *b*, are placed the two end bars *c*. Each end bar consists of a strip of angle iron, one web *c'* of which rests flat upon the upper ends of the blocks, the other web *c²* projecting upwardly. The angle bars are secured in place by bolts *d* which are passed downwardly through apertures in the web *c'* and through apertures in the ends of the side bars. In this way, the side bars, the end bars, and the hollow blocks or clips are secured rigidly together. It will be ob-

served that each upstanding web *c²* is provided at regular intervals with inclined slots *c³* for a purpose to be described.

The fabric consists, as stated, of flat helices *e* which are intercoiled at *e'*. Each helix extends transversely of the fabric, and its ends are connected to the ends of the next adjacent helix by elongated links *e²*. The helices, as shown in Figs. 1 and 2, are elliptical or flat. Each helix consists of a series of coils which have somewhat angular ends *e³*. The end of one coil is interlocked, as at *e'*, with the end of the coil of the next adjacent helix. The apertures or slots *c³* in the webs *c'* are slightly inclined and are spaced so as to receive the ends *e³* of the coils of the end helix of the fabric. The coils of the end helix are all introduced into the apertures, and through the coils is passed a rod or wire *f* which lies against the outer face of the web *c'*, so as to lock the ends of the fabric securely to the end bars.

It will be observed that I have dispensed with the employment of springs connecting the fabric with the end bars, and provide a yielding sanitary bed bottom which is of the simplest possible construction and with the least number of independent parts.

Having thus explained the nature of my said invention and described a way of constructing and using the same, although without attempting to set forth all of the forms in which it may be made or all of the modes of its use, I declare that what I claim is:—

A bed bottom comprising side bars, end bars each consisting of an angle iron having a vertical web with diagonal slots at intervals and an inturned flat side secured to sheet metal blocks fastened to said angle iron and to the side bars, a fabric comprising transverse flat helices, the coils of which are interlocked, the coils of the transverse end helices extending in the form of loops through said slots in the end bars, and a locking rod passed through said loops and bearing against the outer face of said web.

In testimony whereof I have affixed my signature, in presence of two witnesses.

GUY MAFERA.

Witnesses:

P. W. PEZZETTI,
M. B. MAY.