

(No Model.)

F. L. GROFF & F. D. COLVIN.
SPRING BED BOTTOM.

No. 556,923.

Patented Mar. 24, 1896.

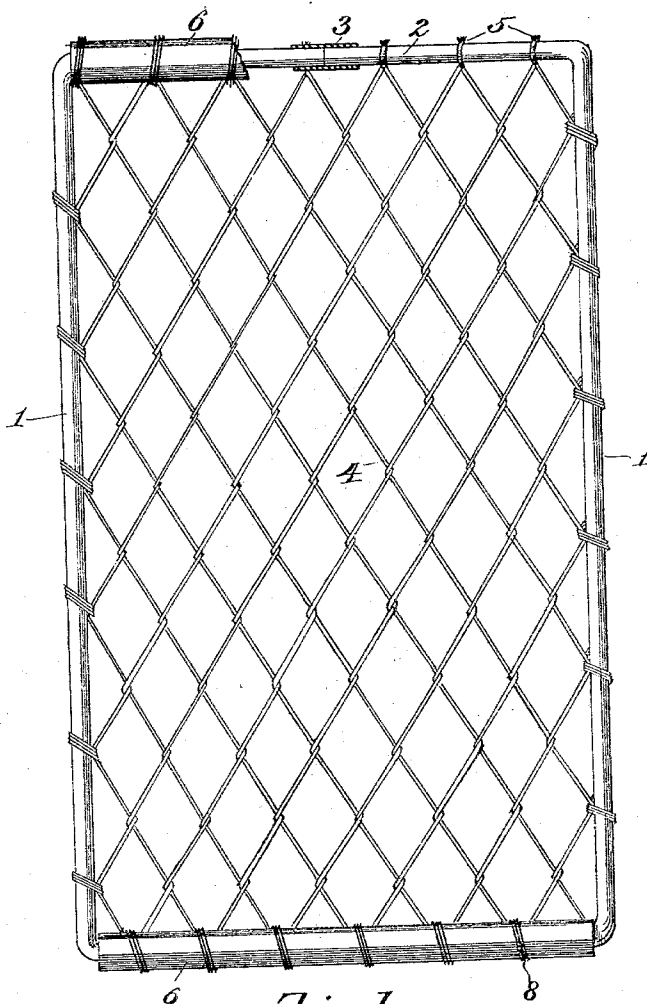


Fig. 1.

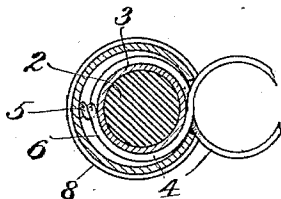


Fig. 2.

WITNESSES

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FRANKLIN L. GROFF AND FRANK D. COLVIN, OF BALTIMORE, MARYLAND.

SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 556,923, dated March 24, 1896.

Application filed June 24, 1895. Serial No. 553,814. (No model.)

To all whom it may concern:

Be it known that we, FRANKLIN L. GROFF and FRANK D. COLVIN, citizens of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Spring Bed-Bottoms; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in bed-bottoms, and particularly to that class thereof wherein the same consists of a metal frame designed to be seated in the bedstead and a webbing of coiled-wire strands. Heretofore in this class of bed-bottoms the same have been open to objection for the reason that it was the common practice to twist said ends over the end bars, and this was objectionable in that the said wire ends offered numerous points with which the ticking of the mattress would engage as well as the bed-clothing and thereby become torn and injured.

The objects of our invention are to overcome these serious objections by guarding or covering all wire ends and to accomplish this in a simple and convenient manner and so as not to increase the cost of construction to an appreciable extent, and, furthermore, to render more rigid the metal frame.

With these objects in view the invention consists in the features of construction hereinafter specified and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a plan view of a bed-bottom constructed in accordance with our invention, a portion of one of the guards being broken away. Fig. 2 is a transverse sectional view through one of the end bars and guards.

Like numerals of reference indicate like parts in both the figures of the drawings.

In practicing our invention we produce the usual bed-bottom frame of suitable gage wire and in a continuous manner, the aforesaid frame consisting of the opposite longitudinal side bars 1 and the end bars 2. The wire blank from which the frame is produced has its ends connected within one of the cross or end bars by a metal sleeve 3. Within this frame is woven the usual webbing 4, the same con-

sisting of a series of interlocking coils of wire. The usual practice of securing the coils over the end bars is here carried out, the same consisting in giving the ends of each adjacent pair of coils a twist, as indicated at 5. This leaves the series of exposed wire ends heretofore stated as being objectionable. Over each of the end bars is introduced a U-shaped sheet-metal guard 6, the same being of such length as to agree with the end bars, and after being put in position by the use of a suitable hand-tool the terminals of the U-shaped guard are closed or nearly so, so as to inclose the cross-bar to which it is applied and in doing so cover from view the ends of the wire coils. It will thus be seen that not only are the ends of the wire coils efficiently covered and engagement therewith of any of the bed-clothing positively prevented, but also the bed-bottom frame itself is materially strengthened and made rigid, which is a desirable and material object.

The meeting edges of the guards clamp upon the coils of wire and also serve to strengthen the fastenings between the coils of wire and the end bars of the frame.

Around the guards and to the side bars of the bed-frame coils 8, each consisting of one or more strands of wire, are passed, and each coil engages with an adjacent coil of the woven-wire bottom, and in this manner the bed-bottom as a whole is secured in position. The meeting ends of these side or end coils are also introduced within the guard, so that when the bed is complete nothing in the way of projecting ends of wire is to be met with.

From the foregoing it will be seen that we have produced a bed-bottom of the class specified wherein a smooth, unbroken, and uninterrupted surface is presented to view and wherein the same is totally devoid of pointed or other projections that are capable of in any way offering injury to the bed ticking or clothing.

Having described our invention, what we claim is—

1. In a bed-bottom, the combination with a rectangular frame and the inclosed woven-wire bottom, the ends of whose coils receive the end bars of the frame and are twisted therebeyond, of the sheet-metal tubular guards inclosing the twisted ends of the coils and end

bars of the frame, said guards being open at one side to receive the woven-wire bottom, substantially as specified.

2. In a bed-bottom, the combination with
5 a rectangular frame and the inclosed woven-wire bottom, the ends of whose coils receive the end bars of the frame and are twisted therebeyond, of the sheet-metal tubular guards inclosing the twisted ends of the coils and end
10 bars of the frame, said guards being open at one side to receive the woven-wire bottom, and means for securing the guards in their clamped position, substantially as specified.

3. In a bed-bottom the combination with
15 a rectangular bed-frame and the inclosed woven-wire bottom, the ends of the coils of

which receive the end bars of the frame and are twisted therebeyond, of the U-shaped sheet-metal guard inclosing the end bars and twisted ends of the coils and the binding-wire
20 inclosing the guards and side bars of the frame and engaging the adjacent coils of the woven-wire bottom and having their twisted ends located within said guards, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

FRANKLIN L. GROFF.

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Witnesses:

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C. P. FOUKE.