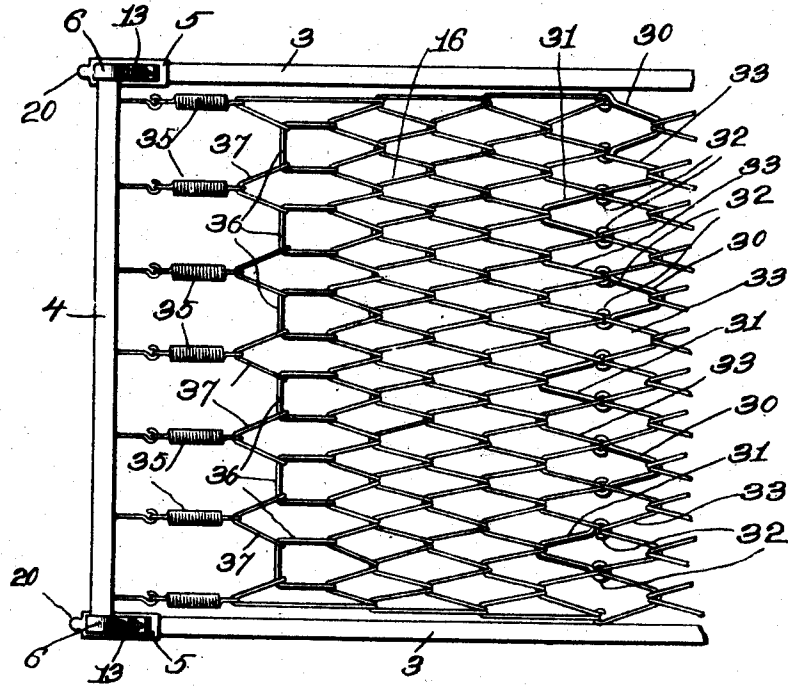


No. 864,366.

PATENTED AUG. 27, 1907.

F. G. GALE.
MATTRESS FRAME.

APPLICATION FILED JUNE 27, 1906.



Witnesses.
W. C. Lunsford
W. L. Fry

Inventor.
Francis G. Gale,
by Henry H. H. H.
Att'y.

UNITED STATES PATENT OFFICE.

FRANCIS G. GALE, OF WATERVILLE, QUEBEC, CANADA.

MATTRESS-FRAME.

No. 864,366.

Specification of Letters Patent.

Patented Aug. 27, 1907.

Application filed June 27, 1906. Serial No. 323,550.

To all whom it may concern:

Be it known that I, FRANCIS G. GALE, a subject of the King of Great Britain, residing at Waterville, Province of Quebec, Canada, have invented an Improvement in Mattress-Frames, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawings representing like parts.

This invention relates to wire fabrics for mattress frames and has for its object to provide a wire fabric which is stiffened or strengthened at its center so as to render it less liable to draw in at the sides or narrow when a weight is sustained thereby for a considerable period.

In some respects my invention is an improvement upon the wire fabric shown in my Patent No. 585,664, dated July 6, 1897.

A wire fabric embodying my invention will first be described and then the novel features thereof will be pointed out in the claims.

In the drawings, Figure 1 is a plan view of one end of a mattress frame embodying my invention.

The side rails of the mattress frame are designated by 3 and the end rails by 4.

In my former patent No. 585,664 is shown a mattress frame composed of A-shaped wire links arranged in transverse rows, the legs of the links of one series being hooked into the apices of the links of the next adjacent series. The A-shaped wire links on opposite sides of the center of the mattress frame face in opposite directions and extending across the center is a zig-zag wire connection into which the legs of both A-shaped links on each side thereof are hooked. In my present improvement, I substitute for this continuous zig-zag connection of my former patent the especial form of links best shown in Fig. 1, that is, at the center of the fabric I arrange two series of especially-arranged links, the links of one series being designated 30 and those of the other series as 31. Each link of both series is A-shaped and is provided with comparatively large eyes 32 at the ends of its legs, and the links 30 of one series are faced oppositely to the links 31 of the other series. The feet or eyes 32 preferably stand in line with each other, and an ordinary A-shaped link 33 is interposed between the special link 31 of one series and the adjacent link 30 of the other series. The special links 30 and 31 may be made of a little larger wire if desired and may be slightly shorter than the other links, and constitute stiffening links. By making them thus, the center of the mattress frame is stiffened considerably, and the tendency of it to draw in at the sides when a weight is applied thereto is very much decreased. I have found from practice that this form

of link at the center of the mattress frame is superior in many respects to the continuous zig-zag arrangement of my former patent.

It is desirable to reduce somewhat the number of springs 35 at the end of the wire frame in order to give it the desirable resiliency. To do this, I employ specially-constructed links at the ends of the frame, such specially-constructed links comprising the U-shaped links 36 which connect the links 33 in pairs, and the A-shaped links 37 which are connected to the links 36 and to the springs 35. With this construction there are only one-half as many springs 35 employed as there are A-shaped links 33 in a transverse row.

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

1. A mattress frame comprising a plurality of connected transverse rows of A-shaped wire links, the links on opposite sides of the center of the mattress frame facing in opposite directions, and two series of A-shaped stiffening links at the center of the frame, each of said stiffening links being provided with large eyes at the ends of its legs, and the stiffening links of the two series facing in opposite directions.

2. A mattress frame comprising a plurality of connected transverse rows of A-shaped wire links, the links on opposite sides of the center of the mattress frame facing in opposite directions, and two series of A-shaped stiffening links at the center of the frame, each of said stiffening links being provided with large eyes at the ends of its legs, and the stiffening links of the two series facing in opposite directions and being situated with their enlarged eyes in the same line.

3. A mattress frame comprising a plurality of connected transverse rows of A-shaped wire links, the links on opposite sides of the center of the mattress frame facing in opposite directions, two series of A-shaped stiffening links at the center of the frame, each of said stiffening links being provided with large eyes at the ends of its legs, and the stiffening links of the two series facing in opposite directions and being situated with their enlarged eyes in the same line, said stiffening links alternating with A-shaped wire links, such as contained in the body of the mattress frame.

4. In a mattress frame, a wire fabric comprising a plurality of transverse rows of connected A-shaped wire links, U-shaped links, as 36, each having the ends of its arms connected to the apices of a pair of adjacent A-shaped links, other A-shaped links 37 connected to the U-shaped links, an end rail, and springs connecting the apices of the links 37 to the end rail.

5. In a mattress frame, a wire frame comprising a plurality of transverse rows of connected A-shaped wire links, U-shaped links, as 36, each having the ends of its arms connected to the apices of a pair of adjacent A-shaped links, an end rail, springs connected thereto, and means connecting the springs to the links 36.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

FRANCIS G. GALE.

Witnesses:

R. J. WALSH,
CARL SWANSON.