

O. H. STUEWE.
WIRE MATTRESS FABRIC.
APPLICATION FILED FEB. 19, 1912.

1,046,233.

Patented Dec. 3, 1912.

Fig. 1.

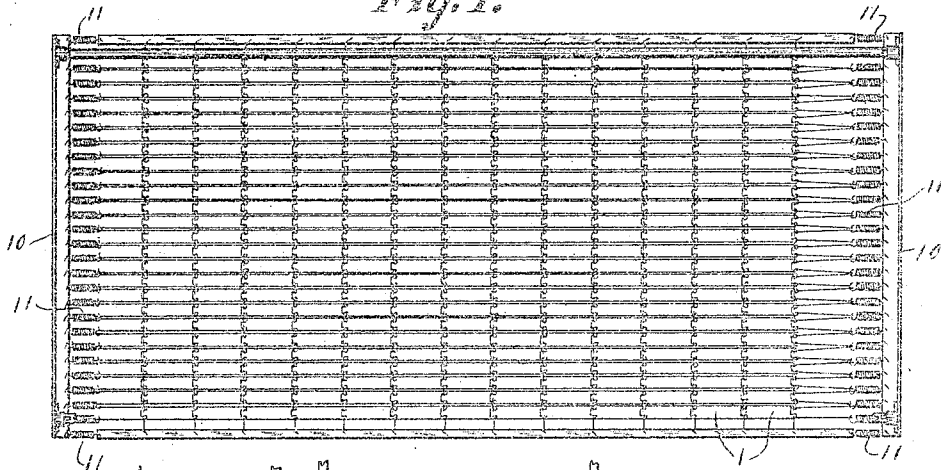


Fig. 2.

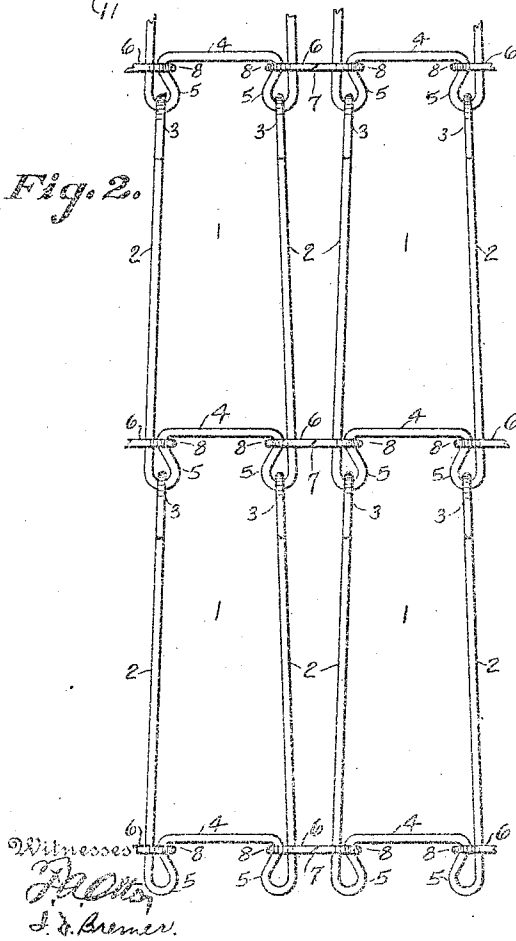
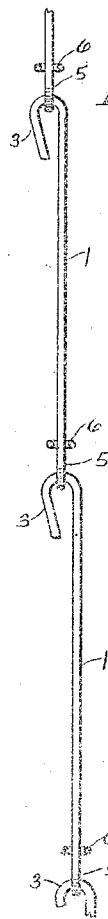


Fig. 3.



Inventor

Oscar H. Stuewe
By
Ernest W. Wadsworth

Attorney

UNITED STATES PATENT OFFICE.

OSCAR H. STUEWE, OF MILWAUKEE, WISCONSIN.

WIRE MATTRESS FABRIC.

1,046,233.

Specification of Letters Patent.

Patented Dec. 3, 1912.

Application filed February 19, 1912. Serial No. 678,606.

To all whom it may concern:

Be it known that I, OSCAR H. STUEWE, a citizen of the United States, residing at Milwaukee, county of Milwaukee, and State of Wisconsin, have invented new and useful Improvements in Wire Mattress Fabrics, of which the following is a specification.

My invention relates to improvements in that class of wire fabrics, which are used in connection with a bedstead for supporting a stuffed mattress of ordinary construction.

The object of my improvement is to provide a mattress fabric, the respective members of which are more securely retained in their proper relative position to each other, whereby the longitudinal series of wires composing the fabric are prevented from sliding transversely to their connecting members, and are securely retained at uniform distances apart throughout their length.

My invention is further explained by reference to the accompanying drawings, in which—

Figure 1 represents a plan view of a mattress as it is connected with its supporting frame. Fig. 2 is an enlarged plan view of a portion of the mattress, and Fig. 3 is a side view of the portion of the mattress shown in Fig. 2.

Like parts are identified by the same reference numerals throughout the several views.

The main body of the mattress fabric is made up of a plurality of longitudinally arranged wire links 1. Each link comprises two side members 2, 2, which side members 2, 2, are respectively provided at one end with hooks 3, and the opposite ends of said members are connected together by the transverse central member 4 and two eye-loops 5, 5, for the reception of the hooks 3 of the next adjacent link, and the several longitudinal series of links are connected together at the junction of said links by the transversely arranged links 6. The ends of the transversely arranged link 6 are bent so as to abut against each other, as shown at the point 7 in Fig. 2. The relative length of the link 6 to the looped eye members 5 is such that the liability of the transversely arranged links sliding back over the circular portions 5 of such eye members is prevented.

The connecting members 4 of the respective links are curved outwardly toward the

respective side members 2, whereby angular recesses 8, 8, are formed for the reception of the ends of the transversely arranged links 6, which recess prevents the liability of the link therein sliding longitudinally toward the hook members 3, while the hooks 3, being formed at right angles to the links 6, also serve as stops to further prevent the liability of said links becoming disengaged from the eye members 5. It will be understood that when the body of the mattress has been thus formed by connecting together a plurality of links 1 joined by the cross links 6, the fabric forming such body is connected at its respective ends to the end members 10 of the mattress frame by a plurality of spiral springs 11, 11, a spiral spring 11 being connected at one of its ends with the respective ends of each series of links 1, and at its opposite end with said frame member 10.

It will be observed that the side bars of the respective links converge from the connected end of the link toward the open end. The bars of successive links therefore do not coincide with a straight line extending longitudinally of the fabric, but extend angularly with reference to such a line, each successive bar in a row being offset outwardly at the point of its connections with the preceding bar. With this arrangement of the bars, a slight extension in the length of a row of links is permitted when the fabric is subjected to pressure, said extension being resilient and the fabric resuming its normal position as soon as it is relieved of pressure.

Another feature of importance is that of arranging the rows of links in close proximity to each other and connecting the inwardly offset portions of adjacent link bars in adjacent rows with each other by transverse links. Owing to the close proximity of the links, each set of links reinforce the next to prevent undue downward sagging under pressure.

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

1. In a mattress fabric of the described class, the combination of a plurality of longitudinal rows of interlocking links and transverse links connecting the side bars of links in adjacent rows with each other, each of said links comprising a pair of side bars connected at one end by an inwardly offset

portion and a transverse connecting bar, and having their open ends provided with hooks engaging in the offset portion of the next succeeding link,—the side bars of said
 5 links converging from their connected ends to their free ends and the transverse connecting links being formed to embrace the inwardly offset portions and the portion of the side bar adjacent thereto, substantially
 10 as described.

2. In a mattress fabric of the described class, the combination of a plurality of longitudinal rows of interlocking links arranged with the links of one row in close
 15 proximity to the next and transverse looped links connecting the adjacent side bars of links in adjacent rows with each other; each of said links comprising a pair of side

bars connected at one end by an inwardly offset portion and a transverse connecting
 20 bar and having their open ends provided with hooks engaging in the offset portion of the next succeeding link,—the side bars of said links converging from their connected
 25 ends to their free ends and the transverse connecting links being formed to embrace the inwardly offset portions and the portion of the side bar adjacent thereto and held in
 30 such position by the hooks of the succeeding links in the respective rows.

In testimony whereof I affix my signature in the presence of two witnesses.

OSCAR H. STUEWE.

Witnesses:

JAS. B. ERWIN,
 J. D. BREMER.