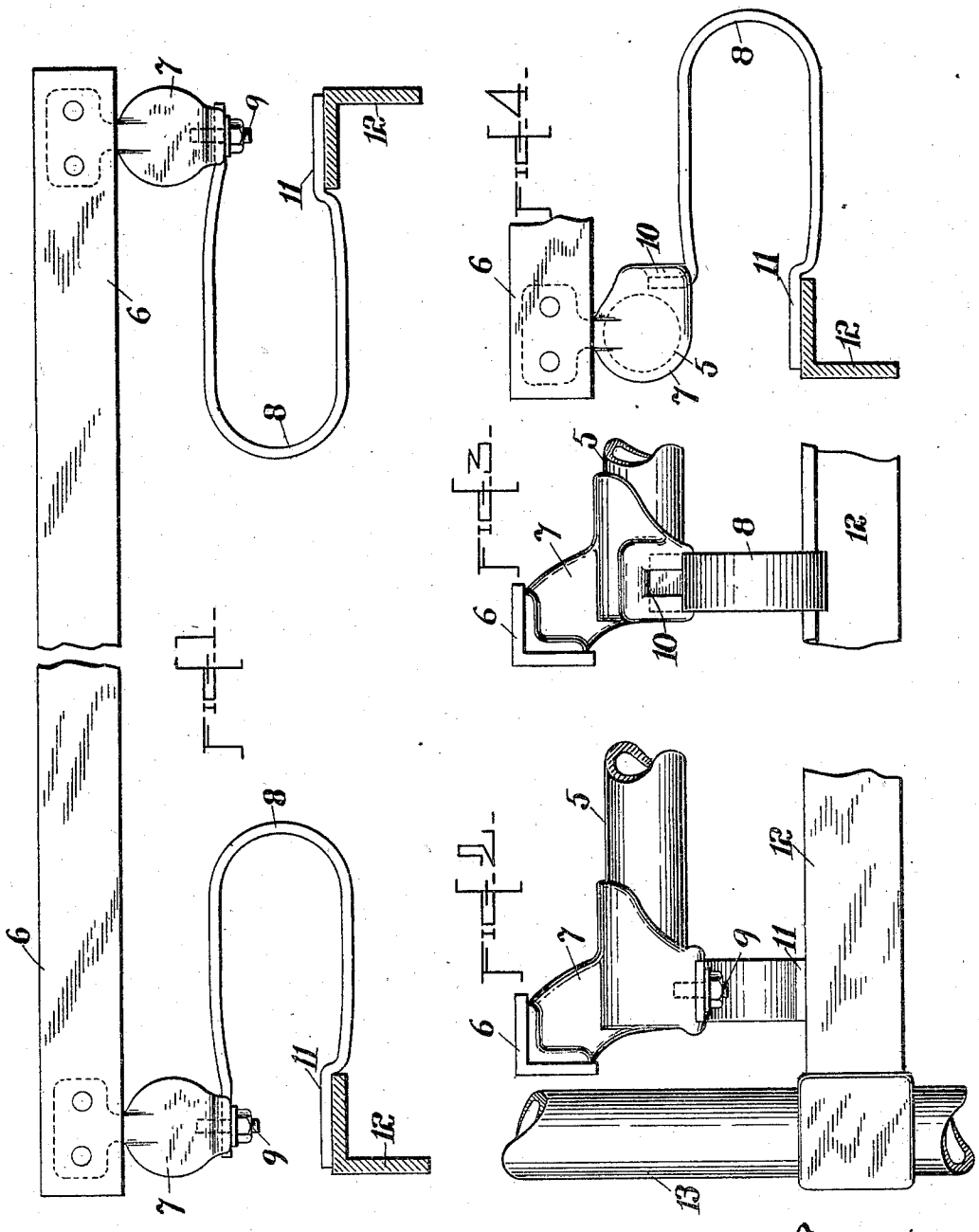
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G. BRAND.

SUPPORTING SPRING FOR BED BOTTOMS.

APPLICATION FILED AUG. 10, 1901.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE BRAND, OF BROOKLYN, NEW YORK.

SUPPORTING-SPRING FOR BED-BOTTOMS.

SPECIFICATION forming part of Letters Patent No. 725,031, dated April 14, 1903.

Application filed August 10, 1901. Serial No. 71,642. (No model.)

To all whom it may concern:

Be it known that I, GEORGE BRAND, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Supporting-Springs for Bed-Bottoms, of which the following is a specification.

This invention relates to an improvement in the manner of supporting bed-bottoms upon bedsteads, and has for its object the production of a resilient support for this purpose which will make a bed-bottom more comfortable and which can be easily manufactured and readily applied.

To this end the invention consists in the construction and combination of parts, substantially as hereinafter specified and claimed.

In the accompanying drawings, which form a part of this specification, Figure 1 illustrates in end view a bed-bottom in which my invention is embodied. Fig. 2 shows in side elevation one corner of said bed-bottom as supported upon a bedstead. Fig. 3 is a similar view of a modification in my invention. Fig. 4 is an end elevation of the modification seen in Fig. 3.

The invention is particularly useful in connection with bed-bottoms wherein the side pieces and end pieces are of metal and are connected together by cast-metal corner-pieces of any form—as, for instance, that indicated at 7. The end and side pieces of the bed-bottom joined by said casting are indicated, respectively, by the numerals 6 and 5, one piece being shown as tubular and the other as a piece of angle-iron, although, as will be well understood, other forms of iron or metal might be used.

8 indicates the resilient support of the bed-bottom. This resilient support is a plate-spring bent one or more times upon itself in such manner as to leave both ends free, one for connection to the bed-bottom and the other for engagement with the side rail 12 of the bedstead. Preferably the plate-spring is given one bend, so that it may be termed in general a "C-spring," although another reversed bend might be given, thus giving the spring a form which, generally described, would be an S form. In the subjoined description and claims, however, the term "C-spring," which is used of this plate-spring, is to be taken as including the S form or any form assumed by giving the plate-spring a number of reversed bends.

The spring may be secured to the bed-bottom or to any portion thereof in any desired way. Preferably it is secured to the cast corner-piece 7 in any proper manner. In Figs. 1 and 2 it is secured thereto by forming a recess in a lug on the under side of each corner-piece and securing one end of spring 8 in said recess. To thus secure it, a stud-bolt, as 9, is preferably cast in the corner-piece and passes through a hole in the end of the spring, a suitable washer and nut being employed to clamp the end of said spring snugly in the recess, as seen in Figs. 1 and 2.

Another and the preferred mode of securing the spring to the corner-piece is seen in Figs. 3 and 4. This consists of forming an undercut or dovetailed recess (shown at 10) in a lug, preferably upon the inner side of the corner-piece, and upturning one end of the C-spring for insertion in said recess. This upturned end may be made to snugly fit the recess, so that in the movement of the bed-bottom the spring will not drop out of place.

The lower free end of the spring is preferably formed with an offset 11, whereby to support it in fixed position upon the bedstead-rails. Said rails are indicated at 12, and in Fig. 2 a corner-post of a bedstead is indicated at 13.

The form of the spring may be changed both in contour and cross-section, and its mode of attachment to the corner-piece and support upon the bedstead may be changed from those shown in the drawings without departing from the invention.

I claim as my invention—

1. The combination with a bed-bottom having cast corner-pieces each provided with a vertical undercut recess in the side thereof, of a C-spring for each corner-piece having an upright portion at one end fitted to said recess and having its opposite end provided with a portion for supporting it in a fixed position upon a bedstead-rail substantially as set forth.

2. The combination with a bed-bottom having cast-metal corner-pieces joining the side and end pieces or bars of said bed-bottom and

each provided with a socket for a supporting-spring, of plate-springs each removably secured at one end in one of said sockets and provided at the opposite or free end with a bend or offset to prevent lateral displacement when the bed-bottom is placed upon the rails of the bedstead.

3. The combination with a bed-bottom having cast-metal corner-pieces to which the side and end pieces or bars of said bottom are joined and each of which corner-pieces is provided with a place of attachment for a supporting-spring, of supporting-springs secured to said corner-pieces and provided at their free ends with means for sustaining them and the bed-bottom upon a bedstead, substantially as set forth.

Signed at the borough of Manhattan, in the county of New York and State of New York, this 8th day of August, A. D. 1901.

GEORGE BRAND.

Witnesses:
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