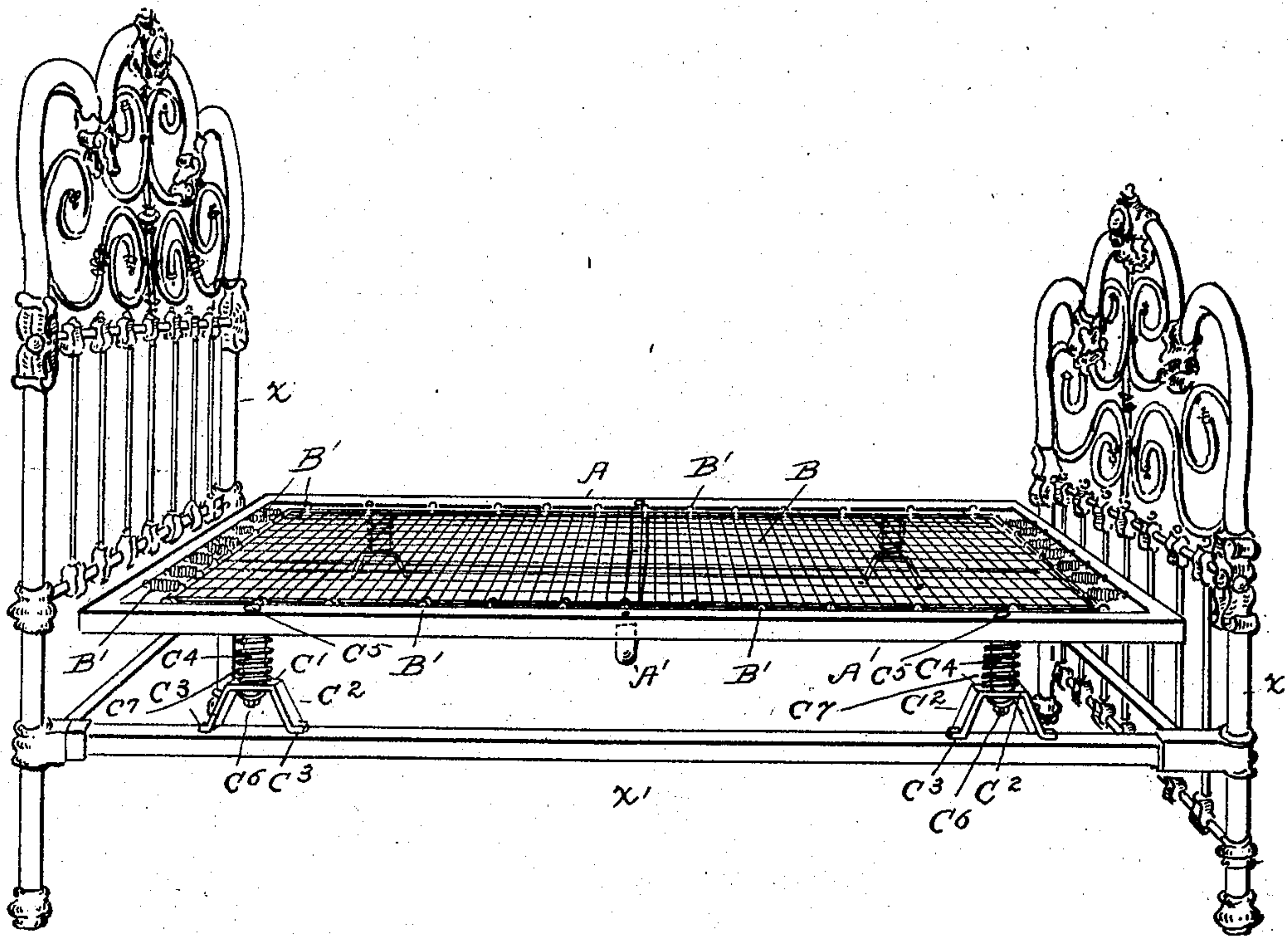


No. 815,610.

PATENTED MAR. 20, 1906.

F. MARTIN.  
MATTRESS.

APPLICATION FILED MAR. 18, 1905.



Witnesses

Joe E Shearer  
O. W. Blahon

Inventor

Francis Martin  
by Baldwin & Co.  
Attorney



# UNITED STATES PATENT OFFICE.

FRANCIS MARTIN, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO  
BUFFER SPRING MATTRESS COMPANY, A CORPORATION OF CALI-  
FORNIA.

## MATTRESS.

No. 815,610.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed March 18, 1905. Serial No. 250,707.

*To all whom it may concern:*

Be it known that I, FRANCIS MARTIN, a citizen of the United States, residing at 2432 Polk street, in the city of San Francisco, county of San Francisco, and State of California, have invented certain new and useful Improvements in Mattresses; and I do hereby declare the following to be a full, clear, and exact description of the said invention, such as will enable others skilled in the art to which it most nearly appertains to make, use, and practice the same.

This invention relates to improvements in spring-mattresses; and it consists of the novel construction and arrangement of the parts.

The objects of the invention are to provide a simple sanitary mattress that will act uniformly in supporting the weight of the occupant and not sag at the edges or immediately under the occupant.

The drawing is a perspective view of a mattress constructed in accordance with this invention and applied to an ordinary type of bedstead.

In detail the construction consists of the rectangular frame A, preferably constructed of angle-iron well braced at the corners and stiffened by the transverse brace A', extending across between the side rails of the frame to give added stiffness thereto. The surface of the mattress consists of the rectangular inflexible top B, composed of interlaced wire-netting secured within a stiff frame, which is supported within the frame A by the coil-springs B', extending inward from the inner edges of the frame A to the frame of the top B, which gives a gentle resiliency to the mattress-top.

It is very essential in a mattress, particularly when occupied by two persons, that the plane of the mattress-top be maintained to avoid the tendency to roll the occupants together or apart, as the case may be. It is also very uncomfortable to have a mattress give unevenly under the weight of the occupant. If the mattress gives like a hammock, it throws too much of the weight of the body on the low point, congesting the blood circulation and often in the case of bedridden invalids resulting in great discomfort and bed-sores. In the course of time a flexible mattress becomes so strained in places it is impossible to dress the bed tidily. The particular

advantage of this invention is the fact that the whole mattress-surface is uniformly resilient vertically, supporting the occupant without disturbing his equipoise.

The frame A is supported by four or more supports C, engaging the side rails X' of the bedstead X. The supports consist of flat strips of iron having the horizontal surface C' and the downwardly-extending legs C<sup>2</sup>. The ends of these legs are split, one portion being bent horizontal to form the foot C<sup>3</sup>, the unbent portion acting as a guide against the inner edge of the side rail X' to prevent dislodgment of the support C. The side rails of the frame A are provided with the vertical wooden guides C<sup>4</sup>, which are securely bolted by the bolts C<sup>5</sup> to the frame, of which they are made a fixed part. These guides C<sup>4</sup> extend through openings in the horizontal surface C' of the supports, within which they freely move vertically, disengagement being prevented by the washer and nut C<sup>6</sup>. It will also be noted that by securing the guides in the supports by means of the nut and washer C<sup>6</sup> the same may be readily removed either for convenience in transportation or for replacing the springs in the event they become damaged or broken.

The weight of the mattress is supported by the expanded coil-springs C<sup>7</sup>, encircling the guides C<sup>4</sup> between the mattress-frame and the supports. The guides are preferably made of wood to prevent squeaking of the spring as it is expanded and contracted by the varying weight on the mattress.

A bed provided with this mattress is made up in the usual manner, some of the advantages being the convenience in tucking in the bedclothing at head and foot because of the supports being removed from the extreme ends of the mattress. The mattress being a skeleton framework permits a free circulation of air thereabout, making it healthful and sanitary. Whether the occupant stands upright or lies prone on this mattress it maintains its even plane, aside from a gentle resilient accommodation to the movements of the occupant. Because of the construction this mattress is light, clean, cheap, noiseless, and hygienic.

Having thus described this invention, what is claimed, and desired to secure by Letters Patent, is—

1. A device of the character described com-



prising a frame, an inflexible mattress resiliently supported within said frame, guides rigidly secured to said frame, truss-like supports provided with depending split legs engaging the rail of the bed, springs interposed between said trusses and frame, and means for removably securing said guides to said trusses.

2. A device of the character described comprising a frame, an inflexible mattress resiliently supported within said frame by coil-springs, trusses supported by the rail of the bed to support said frame, said trusses being provided with openings, and depending split legs engaging said rail-guides rigidly secured to said frame and adapted to pass through the openings in said trusses, springs interposed between said trusses and said frame, and nuts on the ends of said guides for removably securing said frame to said trusses.

3. A device of the character described comprising a frame, an inflexible mattress resiliently supported within said frame by coil-springs, guides rigidly secured to said frame, supports having depending split legs resting

on the rail of the bed, said supports being provided with openings to receive said guides, springs interposed between said supports and frame, and nuts upon the ends of said guides to removably secure them in the openings in said supports.

4. A device of the character described comprising a frame, an inflexible mattress resiliently supported within said frame by coil-springs, supports for said frame, each support consisting of a horizontal portion having an opening formed therein and two legs each having a split portion adapted to rest upon the rail of the bed, guides rigidly secured to said frame and adapted to pass through the openings in said supports, springs interposed between said supports and said frame, and nuts upon the ends of said guides to removably secure said frame to said supports.

In testimony whereof I have hereunto set my hand this 20th day of February, 1905.

FRANCIS MARTIN.

Witnesses:

BALDWIN VALE,  
JOE E. SHEARER.