

(No Model.)

A. Q. ALLIS.  
MATTRESS.

No. 267,316.

Patented Nov. 14, 1882.

Fig. 1.

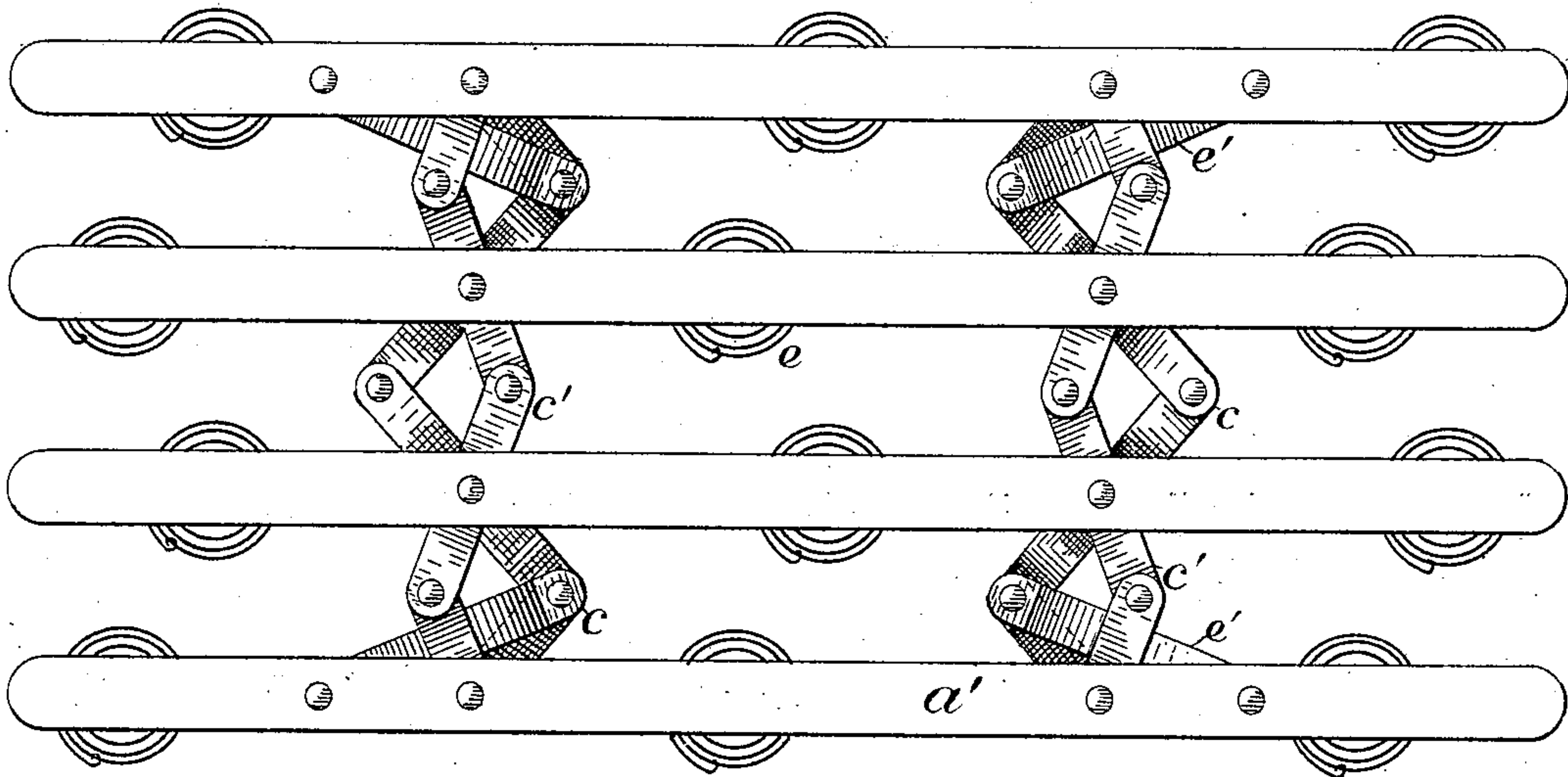
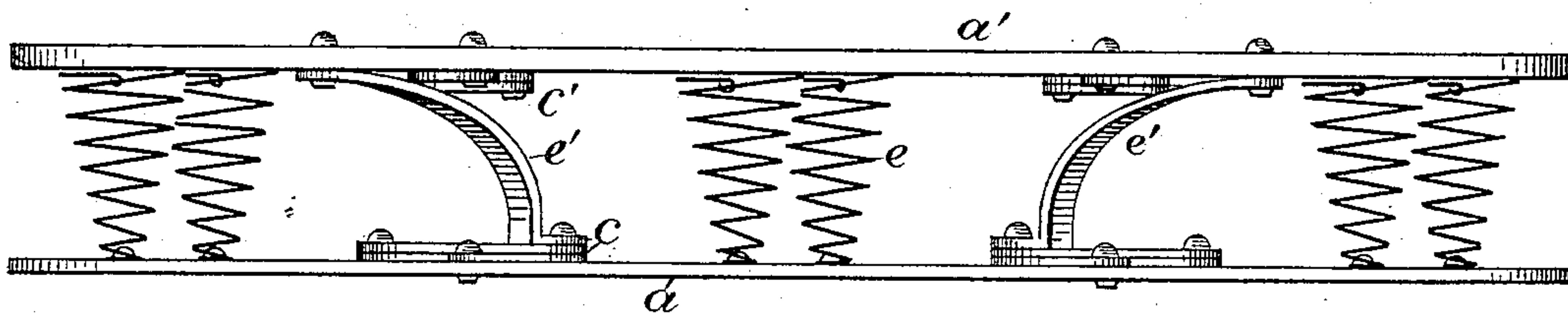


Fig. 2.



ATTEST:

*J. A. Hurdle.*  
*J. Ash.*

INVENTOR:

*Abram Q. Allis*  
*by his atty*  
*J. S. McKiernan*

# UNITED STATES PATENT OFFICE.

ABRAM Q. ALLIS, OF NEW YORK, N. Y.

## MATTRESS.

SPECIFICATION forming part of Letters Patent No. 267,316, dated November 14, 1882.

Application filed June 30, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ABRAM Q. ALLIS, a citizen of the United States, residing in the city and State of New York, have invented  
5 new and useful Improvements in Spring-Mattresses, of which the following is a full and clear specification.

In the accompanying drawings, forming part of this specification, Figure 1 represents a top  
10 view or plan of my mattress when extended, and Fig. 2 a side elevation.

Similar letters of reference indicate corresponding parts.

The object of my invention is to produce a  
15 mattress that is capable of being fitted to any size bedstead and which can be readily transferred from place to place, and one that has all the advantages of similar-constructed mattresses, and yet can be manufactured for less  
20 cost.

My invention consists of a series of parallel slats both on the top and bottom of the mattress, and having between them the coiled springs ordinarily used. The top slats are  
25 connected together by means of jointed arms pivoted to the slats. The lower slats are connected together by means of jointed arms the same as the top one, the jointed arms of the bottom being longer than those of the top.

30 In the drawings, *a* designates the parallel slats of the bottom, and *a'* the parallel slats of the top.

*c* represents the jointed arms which are pivoted to the bottom slats, and *c'* the jointed  
35 arms which are pivoted to the top slats.

*e* represents the coil-springs, which are placed between the top and bottom parallel slats and held in their place by means of rivets or any  
40 suitable device.

At each corner of my mattress, to the first  
45 joint of the arms which are secured to the bottom row of slats, is attached one end of a curved spring, *e'*, the other end of which is secured to the outside top slat, as hereinafter described.

In constructing a mattress of this description it is preferable to make the jointed arms which are attached to the lower parallel slats longer than those which are attached to the  
50 top slats, so that the curved spring attached to the first jointed arm, as above described,

will form an acute angle, (see Fig. 1,) and thus act as a brace to prevent any longitudinal movements of the slats.

I am aware that spring-mattresses having  
55 coiled springs and parallel slats at the bottom with jointed arms have been heretofore patented, as shown in patent to Le Quesne, No. 184,880, where the springs are held together on the top by means of chains or links. This  
60 mattress is open to the objection that the springs are free for lateral movement when the mattress is partly compressed, and the springs usually upset and become destroyed, while in my mattress the springs are held in position  
65 by being secured to the slats both at the top and bottom.

I claim that my mattress is less liable to get out of order, owing to its simplicity, and it is more durable and less expensive to make.  
70

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A spring-mattress composed of a series of parallel slats, *a*, forming the bottom, and a  
75 like number of parallel slats, *a'*, forming the top, and having between them the coil-springs *e*, in combination with the jointed arms attached to the top and bottom row of parallel slats, as described and specified.  
80

2. In a spring-mattress, the combination of the parallel slats *a* and *a'* with the long jointed arms *c*, attached to the bottom slats, the short jointed arms *c'*, attached to the top slats, the coil-springs *e*, and the corner-bracing springs  
85 *e'*, all as described, and for the purpose set forth.

3. The slats *a* and *a'*, in combination with the long jointed arms at the bottom and shorter jointed arms at the top, the coil-springs *e*, and  
90 the bracing-springs *e'*, having one end secured to the lower jointed arm and the other end secured to the top outside slat, as described and specified.

In testimony that I claim the foregoing im-  
95 provement in spring-mattresses, as above described, I have hereunto set my hand.

ABRAM Q. ALLIS.

Witnesses:

SAM. TRO. SMITH,  
T. C. JOHNSON.