

(No Model.)

F. LONG.  
BUGGY CUSHION.

No. 526,041.

Patented Sept. 18, 1894.

Fig. 1.

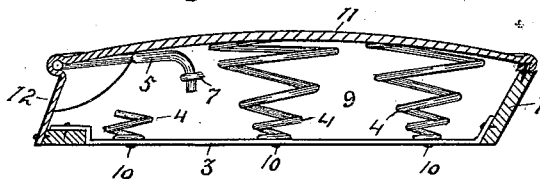


Fig. 2.

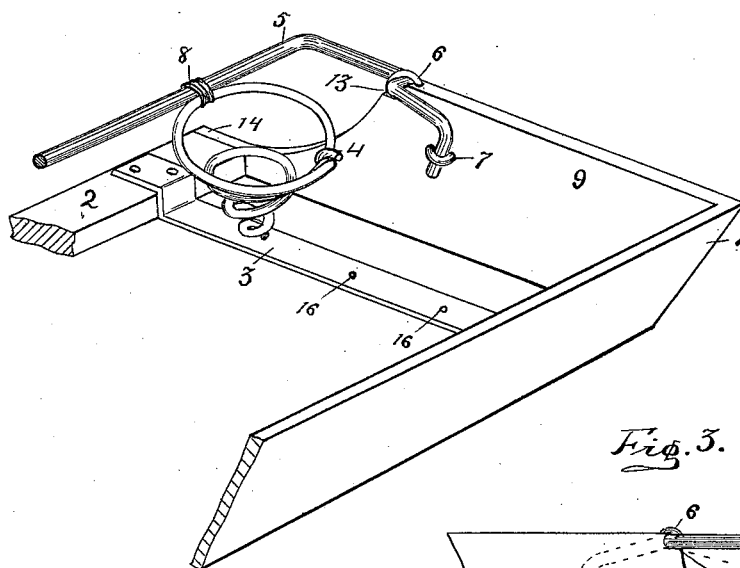
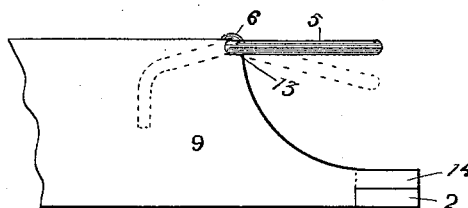


Fig. 3.



WITNESSES:

*Math. L. Burns.*  
*Thomas Duncan.*

*Frank Long* INVENTOR

BY *Chapin & Denny*  
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# UNITED STATES PATENT OFFICE.

FRANK LONG, OF FORT WAYNE, INDIANA.

## BUGGY-CUSHION.

SPECIFICATION forming part of Letters Patent No. 526,041, dated September 18, 1894.

Application filed March 15, 1894. Serial No. 503,695. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK LONG, a citizen of the United States, residing at Fort Wayne, in the county of Allen, in the State of Indiana, have invented certain new and useful Improvements in Buggy-Cushions; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings which form part of this specification.

My invention relates to improvements in buggy cushions which by slight modifications may be adapted to various vehicles, and also to dental chairs or other furniture.

The object of my improvement is to provide a cheap, substantial and durable buggy cushion, adapted to be made in any desired size, so constructed as to automatically resume and retain its shape when not in use, and so arranged as to be open at the bottom, affording perfect ventilation therefor, thereby preserving the tufting and padding from decay and provided with a series of supporting coil springs affording increased comfort and convenience to the occupant over the buggy cushions now in use.

My invention consists of a rigid cushion frame having its ends cut away at the upper front corner, and having a strong pivotally mounted supporting rod or bar of spring metal to which the front row of the series of coil springs is secured, and provided with a series of transverse flexible metallic strips on which the coil springs are securely mounted.

The novel feature of my invention consists in the construction and arrangement of the different parts whereby the front edge of the spring cushion is adapted to break the force of all jolts and jars of the vehicle, and at the same time is adapted to automatically resume its normal position when the weight of the occupant is removed therefrom.

The object of my invention is accomplished by the mechanism illustrated in the accompanying drawings in which similar figures or numerals of reference indicate corresponding parts throughout the several views.

Referring now to the drawings, Figure 1 is a vertical transverse section of my improve-

ment showing the relative arrangement of the different parts. Fig. 2 is a perspective of the same in section with the overlying upholstery removed to show the manner in which the said spring, rod or bar is secured to the cushion frame and connected to the forward row of the coil springs. Fig. 3 is a detail designed to illustrate the operation of the said spring bar or rod.

The cushion frame comprises the flaring back 1, the ends 9, and the plate 2 adapted to connect the forward ends of the said pieces 9, all being preferably of wood, and of proper dimensions to conform to a proper buggy-seat. The end pieces 9 are cut away, preferably about one-fourth their length, upon their upper front corner, leaving a forwardly projecting tongue 14 to which the said longitudinal plate 2 is rigidly secured, as seen in Fig. 2. The said end pieces are also provided with the transverse grooves 13 in which the said spring bar or rod 5 is loosely but securely mounted and secured by a proper staple 6 or other suitable manner.

The transverse plates 3, preferably of metal, are provided with the perforations 16, and are rigidly secured at one end to the inner surface of the back 1 and at the other end to the plate 2, as seen on Fig. 1. In these perforations of the said plates 2, are rigidly secured by proper rivets 10 or other proper manner, the lower end of the coil springs 4, their upper end being secured in any proper manner to the overlying tufting or upholstery 11. The said spring bar or rod 5, corresponding in its longitudinal length to the back 1, is irregularly bent at both ends to extend rearwardly to the slots 13 and thence to the staples 7 in the end plates 9, by which the extremities thereof are rigidly secured. This spring rod 5 is firmly secured to the foremost row of the coil springs 4 by binding their uppermost coil thereto by the tie wire or cord 8, as seen in Fig. 2.

The front of the cushion is inclosed by a proper curtain 12 preferably integral with the top covering thereof and rigidly secured to the plate 2.

It is obvious that the covering 11 may be of any desired thickness or of any suitable material, and may be provided with any desired amount of tufting or padding.

The operation of my improved spring cushion thus described is obviously as follows: As there is no tufting or padding between the springs 4 or between any of the coils thereof, 5 their normal action is free and unincumbered; and as the spring rod 5 is secured to each adjacent coil spring 4 on the adjacent row, it will promptly resume its normal position under the tension of the said springs when 10 the weight thereon is removed.

It is obvious that my improvement thus constructed with a gently yielding and spring mounted forward edge adds greatly to the comfort and convenience of the occupant, 15 particularly when subject to much jolting upon rough and uneven roads. It is also obvious that my improved cushion with proper modifications may be adapted to a dental chair and other furniture, though I deem it 20 especially adapted and designed for a buggy cushion.

I am aware that cushions having upholstery mounted upon somewhat similar coil springs are in common use for furniture and other 25 purposes, but no buggy cushion has ever been invented, of which I am aware, having its front edge provided with a vertically adjust-

able spring rod or bar connected with the said springs in the manner herein described; therefore, 30

What I claim as new and useful, and desire to secure by Letters Patent, is—

In a buggy cushion the combination of a skeleton frame having its front upper corners cut away for the purpose described, and provided with the perforated transverse metallic 35 plates 3 adapted to support the coil springs 4, and a series of coil springs 4 mounted upon the said plates and secured in position by being attached to the underlying upholstery, 40 with a rigidly mounted and vertically adjustable spring rod 5 loosely mounted in the groove 13 and the staple 6 secured by the staple 7 and connected to the springs 4 by 45 the tie wire or cord 8, the said rod, springs and frame being surmounted by suitable upholstery, all substantially as described.

Signed by me, at Fort Wayne, in the county of Allen, in the State of Indiana, this 10th day of March, A. D. 1894.

FRANK LONG.

Witnesses:

WILLIAM MELLINGER,  
WALTER G. BURNS.