J. S. FRIEDE.

CUSHION.

APPLICATION FILED MAR. 17, 1921.

1,420,990. Patented June 27, 1922.

Fig.1.

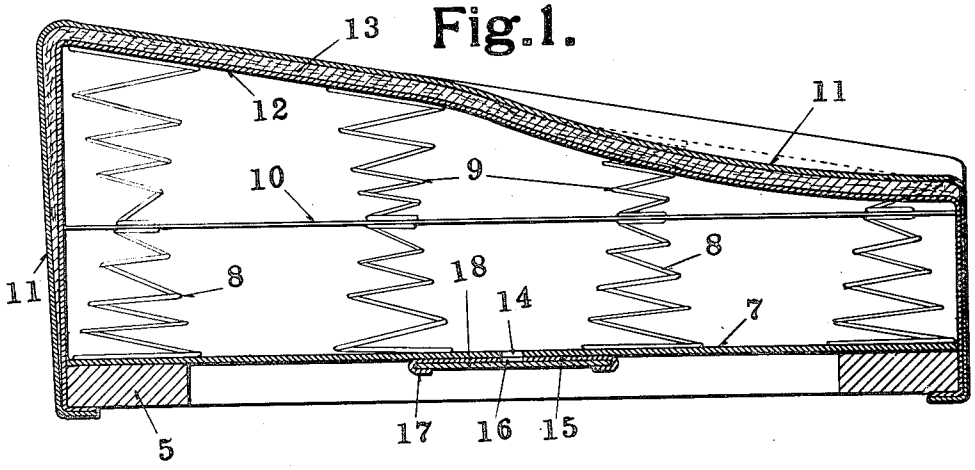


Fig.2.

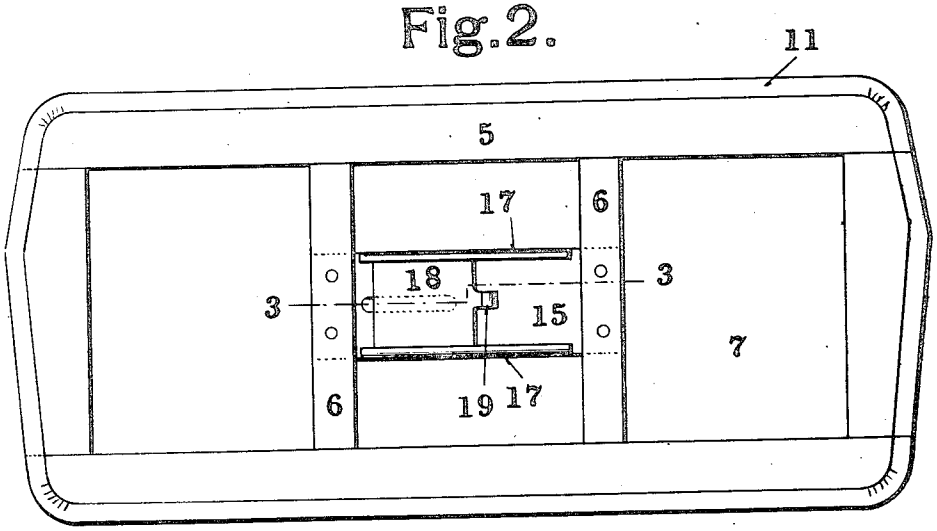
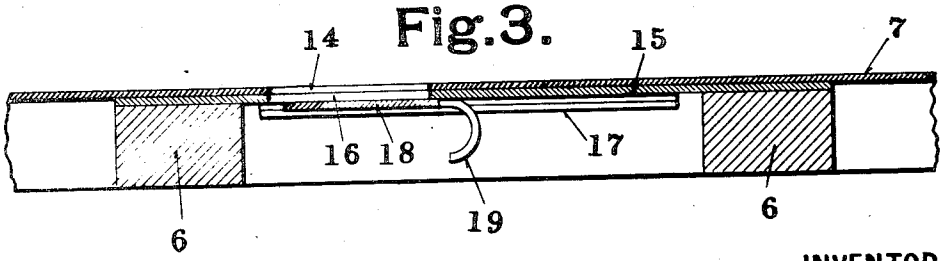


Fig.3.



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CUSHION.

1,420,990. Specification of Letters Patent. Patented June 27, 1922.

Application filed March 17, 1921. Serial No. 452,962.

To all whom it may concern:

Be it known that I, JULIAN S. FRIEDE, a citizen of the United States of America, residing at the city of St. Louis, State of Missouri, United States of America, have invented a certain new and useful Cushion, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention, which is particularly adapted as an automobile cushion, consists of an air-tight cover enclosing suitable springs and provided with an air vent consisting of one or more passages permanently open during the operation of the device so as to provide a dash pot or dampening effect, auxiliary to the spring effect, together with means for varying the effective area of such vent so as to adapt the cushion for use by persons of different weights.

In the accompanying drawings which illustrate one form of cushion made in accordance with my invention, Figure 1 is a vertical cross section, Figure 2 is a bottom plan view, and Figure 3 an enlarged section taken on the line 3—3 of Figure 2.

The base of my cushion comprises a frame work 5, preferably having cross pieces 6, and a bottom board 7 which may be formed of card board or other suitable thin material. Resting upon the base are a number of springs each consisting of two parts 8 and 9 secured together by strips 10 of steel or other suitable material. Surrounding the springs is the cover consisting of an outer part 11 preferably of leather, an inner part 12 of canvas or sheeting and an intermediate layer of cotton wadding 13, the several parts forming an air-tight covering. Formed in the bottom board 7 is an opening 14 preferably elongated in form and providing a dash pot or dampening effect auxiliary to the action of the springs. Below the opening 14 is a sheet of metal 15 preferably set into the cross pieces 6 and provided with an opening 16 corresponding in size and shape to the opening 14 in the bottom board 7. The edges of the sheet 15 are turned over to form guide ways 17 in which is a slide 18 provided with a handle 19 by which it may be moved to cover a greater or less amount of the openings 14 and 16 and thus vary the effective area of the air vent so as to adapt the cushion to the use of persons of different weights.

The operation of my device will be evident. The action of the springs 8 and 9 will be supplemented by the dash pot or dampening effect of the air as it passes in and out of the vent 14 and the effective area of this opening can readily be varied to adapt this effect to the weight to which the cushion is to bear.

I am aware that it has been heretofore proposed to provide a spring cushion with a valved opening, the valve being adapted to close under abnormal shocks, and do not desire to claim such as my invention as it is essential to the proper operation of my device that the air vent be permanently open during the operation of the device and that said vent be capable of adjustment to vary its effect.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. In a device of the class described, the combination with a base, of springs carried by said base, an air tight cover for said springs, a bottom board carried by said base and provided with an air vent, and adjustable means for varying the effective area of said vent.

2. In a device of the class described, the combination with a base, of springs carried by said base, an air-tight cover for said springs, a bottom board carried by said base and provided with an air vent, a plate carried below said bottom board and provided with guide ways, and a slide operating in said guide ways to vary the effective area of said vent.

In testimony whereof, I have hereunto set my hand and affixed my seal.

J. S. FRIEDE. [L. S.]