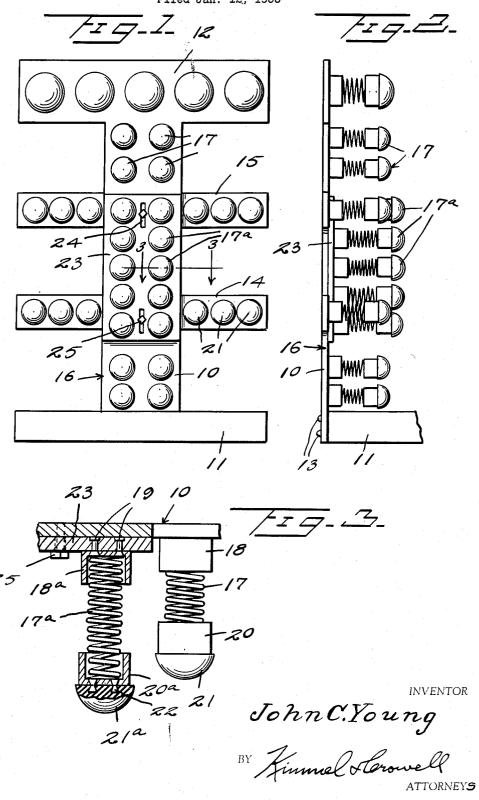
# RESILIENT SEAT BACK CONSTRUCTION

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## RESILIENT SEAT BACK CONSTRUCTION

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tion for a seat.

An object of this invention is to provide an improved back constructioen for a seat, such as the front seat of an automobile, which will readily conform itself to the back of a person and will resiliently support the back. 20

Another object of this invention is to provide an improved back construction wherein a plurality of separate springs are secured to and extend from a support with the separate springs having individual cushion elements on their outer ends for individual contact with the back 25 of a person.

A further object of the invention is to provide an improved back construction which is so constructed and arranged as to form a ventilated back whereby air may readily circulate therethrough for direct contact with the 30 back of a person.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawing and specification, and then more particularly pointed out in the appended 35

In the drawing-

Figure 1 is a detailed front elevation of a seat back constructed according to an embodiment of this inven-

Figure 2 is a detailed side elevation of the back.

Figure 3 is a fragmentary sectional view taken on the

line 3—3 of Figure 1.

Referring to the drawings, the numeral 10 designates generally a substantially upright plate or spine supporting member which is adapted to be secured to a seat frame 11 by fastening means 13. The plate 10 has secured to the upper end thereof a horizontally disposed plate 12 which projects laterally of the opposite vertical edges of plate 10.

A lower pair of laterally projecting flat bars 14 extend from the opposite vertical edges of plate 10 and a second pair of intermediate laterally projecting flat bars or arms 15 extend from the opposite vertical edges of plate 10. erally indicated by the numeral 16, has secured thereto a plurality of springs 17. The springs 17 are coil springs and are seated at their inner or rear ends in cup members 18 which are fixed by fastening means 19 to the frame

The outer or forward ends of the springs 17 have secured thereon cap members 20, and cushion members 21 are secured to the cap members 20.

As shown in Figures 2 and 3, intermediate springs 17a are secured to a vertically adjustable plate 23 having  $_{65}$ spaced slots 24 through which adjusting bolts 25 engage for securing the plate 23 to the forward side of the plate 10 in the area adjacent to and including the space between the arms 14 and 15. Springs 17a are substantially

longer and stronger than the springs 17 so as to more snugly engage the small of the back of a person leaning thereagainst, and the vertical adjustment of plate 23 permits the intermediate unit to be adjusted for persons of different sizes. In other respects the springs 17a are similar to the springs 17 and include base cups 18a with caps 20a mounted on the outer ends of the springs 17a and cushion members 21a secured by any suitable fastening means such as 22 to the caps 20a.

The spacing between the arms 14 and 15 is such that where the back structure herein disclosed is used with a swingable seat construction such as is disclosed in my co-pending application filed of even date, for swingable vehicle seat construction, the seat may readily turn or This invention relates to an improved back construc- 15 swing about the pivot thereof, with the steering wheel of the vehicle engaging between either the arms 14 and 15 or the arm 15 and the upper plate 12. The back structure hereinbefore disclosed will provide a relatively skeleton-like back structure which will permit free ventilation or free circulation of air through the back struc-

I do not mean to confine myself to the exact details of construction herein disclosed, but claim all variations falling within the purview of the appended claims.

What I claim is:

1. A resilient seat back construction comprising a substantially upright elongated plate, an upper horizontal plate fixed to the upper end of said upright plate and projecting laterally of the vertical edges of the latter, a pair of horizontal lower oppositely extending arms carried by said upright plate, a pair of horizontal intermediate oppositely extending arms carried by said upright plate, a plurality of spaced forwardly projecting coil springs carried by said upright plate, said upper plates and said arms certain of said springs extending to one plane spaced from said plate and certain other of said springs extending to a plane spaced further from said plate than said one plane, and individual cushion means carried by the forward ends of said springs.

2. A seat back construction comprising a substantially upright flat frame member, a plate fixed to the forward side of said member, means vertically adjusting said plate relative to said member, a plurality of spaced forwardly projecting coil springs fixed to said member, a plurality of spaced forwardly projecting coil springs fixed to said plate, said first and second named springs projecting forwardly to different distances cups on the outer ends of said springs, and individual cushion means carried by said cups.

3. A seat back construction comprising a substantially upright flat frame member, a plate fixed to the forward side of said member, means vertically adjusting said plate relative to said member, a plurality of spaced forwardly The forward side of the total back frame, which is gen
55 of spaced forwardly projecting coil springs fixed to said projecting coil springs fixed to said member, a plurality plate, said latter-named springs projecting forwardly beyond said first-named springs, cups on the outer ends of said springs, and individual cushion means carried by said cups.

## References Cited in the file of this patent

#### UNITED STATES PATENTS

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906
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