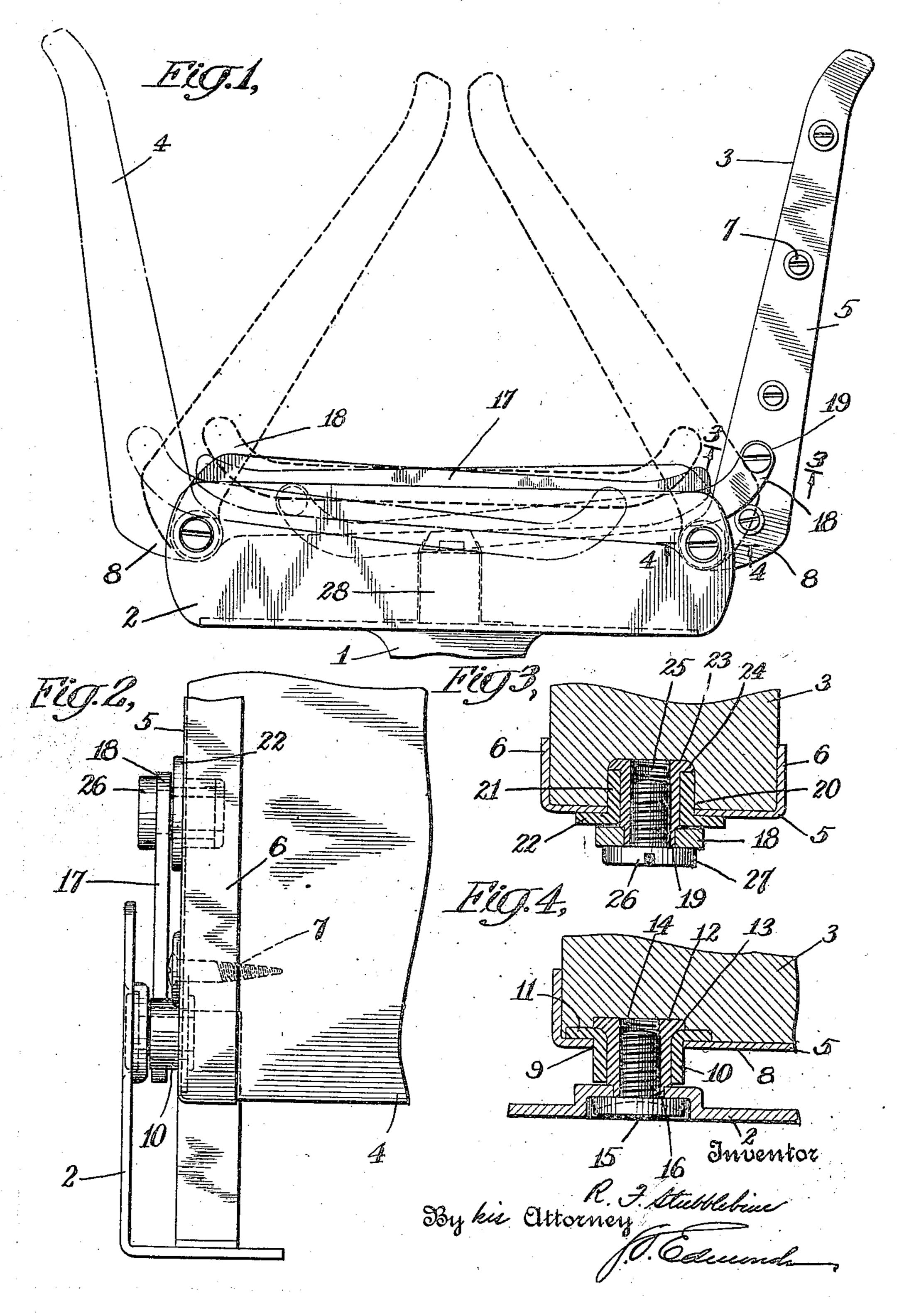
R. F. STUBBLEBINE. CAR SEAT. FILED MAR. 18, 1921.



UNITED STATES PATENT

RAYMOND F. STUBBLEBINE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO AMERICAN MOTOR BODY COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF DELAWARE.

CAR SEAT.

Application filed March 18, 1921. Serial No. 453,325.

To all whom it may concern:

Be it known that I, RAYMOND F. STUBBLEat Philadelphia, in the county of Phila- members and their supports. The function 5 delphia and State of Pennsylvania, have in- of these links is to cause a member in seatin Car Seats, of which the following is a sition when the other member swings down- 60 specification.

10 and my object is to provide a seat which either member from swinging rearwardly will be light of weight, by which maximum beyond its correct back position or forwardly cushien-space will be secured for a given therefrom when the seat is occupied. over-all length and in which a minimum. It has been found that by fashioning these 15 object is to provide a construction in which elongated crescent instead of in the shape of a minimum of space at the ends of the seats is taken up with mechanism or frame-work.

A further object of this invention is to provide a seat which may be manufactured 20 and assembled inexpensively and easily and in operation.

Other objects will be in part obvious and

in part pointed out hereinafter.

My invention relates particularly to the type of seat such as is disclosed in the application of George W. Dryer, car seat, Serial Number 352,342, filed January 19, 1920, although many features of my invention 30 may readily be employed with other types of seats.

prises two pairs of supports, pivoted on opposite sides of the construction, each pair 35 supporting a member adapted to be posi- secured to each end of the back and seat 40 the two members such that when one rests very efficient construction is obtained and 45 member which is serving as a back may be the parts are not apt to work loose. swung downwardly about its pivot into po- In order that a clearer understanding of 50 opposite side of the construction. The con- lustrating one embodiment of my invention. of the construction, which links are pivot- invention; Fig. 2 is a front elevation of a

ally connected at their ends to the end surfaces of the seat and back members at points 55 BINE, a citizen of the United States, residing above the pivotal connections between said vented certain new and useful Improvements ing position to swing upward into back poward from back position into seating posi-My invention relates to railway car seats tion, and a further function is to prevent

number of parts will be used. An additional links in a shape resembling somewhat an a compound curve, as has heretofore been the custom, not only will a smaller space be re- 70 quired at the ends of the seat for the movement of these links and thereby considerable additional space at the ends of the seat is at the same time is very durable and efficient conserved, but the ends of the links may be connected with the seat and back members 75 at points further from their points of pivotal support, and by the increased leverage thus obtained the seat and back members may be more easily shifted from one position to the other when desired, and these 80 members are more positively held against undesired movement when in extreme position.

Moreover, in accordance with my inven-The type of seat above referred to com- tion I provide novel and improved means 85 for mounting the seat and back members on the construction by providing channel irons tioned either as a seat or as a back. One members, and improved means for mountof these members is pivoted at the front ing these channel irons on the supports as 90 and the other at the back of the construct well as improved connections between the tion, and connections are provided between links and these channel irons. As a result a in seating position the other will extend up- one which is inexpensive to manufacture, wardly from its pivot in the correct position comprises a minimum of parts and one 95 to serve as a back. When it is desired to re- which may be easily assembled or taken verse the seating direction of the seat the apart for the replacement of parts. Also

sition to serve as a seat, the other member my invention may be had, attention is here- 100 rising at the same time from its seating po- by directed to the accompanying drawings sition into position to serve as a back at the forming a part of this application and ilnection between the seat and back members. In the drawings Fig. 1 represents an end comprises a pair of links, one at each end elevation of a construction embodying my 105

5 port, such as a pedestal 1, is provided and annular ring I position a bushing 23 having 70 two angular members 2 are mounted on the an annular flange 24 overlapping the end support, one at each end of the seat. Seat of annular ring 21 and having a threaded and back members 3 and 4, respectively, perforation 25 adapted to receive a screw 26 which may be substantially duplicates of threaded therein. A head 27 on screw 26 10 each other, are each adapted to serve either bears against portion 18 of the links 17.75 as seat or back cushions and are pivotally Thus, it is apparent that as the back and seat supported on members 2, one on each side members are swung on their pivots the links of the seat. Extending along each end of will rotate in respect to back-supporting or these members 3 and 4 I provide a supporting seat-supporting standards 5 in such a way 15 standard comprising a channel iron 5 adapt- that the screw 26 will move in unison with 80 the member between its flanges 6, and hav-lodged during the operation of the seat. ing its web perforated so that it may be at- The links 17 are of such length and the tached to the back or seat member as by points of their pivotal connection to mem-20 means of screws 7. At their lower ends these bers 3 and 4 are so chosen that when mem- 85 back-supporting members 8 are pivotally ber 3 rests in seating position, member 4 is supported on the seat-ends 2 so as to permit in the correct position to act as a back-cushthe seat or back member supported thereby ion, and when member 4 rests in seating to be easily swung about this pivot and at position member 3 will be in correct position 25 the same time be positively supported on the to act as a back-cushion at the opposite side 90 end plates 2. As shown in Fig. 4 the partic- of the structure, this position being indicated ular means for pivoting these standards to in dot and dash lines at the left of Figure 1. the end plates 2 may comprise a lug or ear A rubber pad 28 or other suitable support 30 perforation 9 therein, an annular ring 10 rest upon, when in seating position. positioned through perforation 9 and hav- By forming the links with a longiing an annular flange 11 resting against the tudinally-extending, horizontal, central porinner side of the standard 5, a bushing 12 tion upturned at the ends, the links are within member 10, having an annular flange adapted to be confined to a minimum space 35 13 over-lapping flange 11 as shown, and conduring the reversing movements of the seat. 100 taining a threaded perforation 14 adapted The upturned ends permit connection of the to receive a screw 15 threaded therein links to the back and seat members well through an opening 16 in the end plate 2 with the head of the screw bearing against are connected to the seat ends 2, and the 40 said plate 2. The assembling of these parts increased leverage thus obtained will render 105 will provide a bearing for the channel iron it easier to effect a reversal of the seat in by assembling the parts as above described then positioned as a back. 45 supporting standard 5 is swung on its pivot 3 and 4 on the reversal of the direction of 110 to effect the reversing of the seat. With this the seat are indicated in dotted lines in construction the parts are not apt to work Figure 1. loose and fall apart and a very efficient and 50 the back and seat members.

5 and at its opposite end to the opposite central portion and upwardly extending apt to become loosened or displaced. 60 portions 18 at each end. The ends of these The particular form of seat and back- 125 links are perforated as at 19 where they are pivotally connected to the respective stan- present invention and is therefore not illusdards 5 well above the points at which the trated, it only being essential that one side standards are pivotally connected to the end of each member shall be adapted to act as

part of one side of the construction; Figs. perforation 20 is supplied in the channel 3 and 4 are sections taken respectively on iron 5 above its point of support on end the lines 3—3 and 4—4 of Fig. 1. plate 2, and in this perforation I seat an Referring to the drawings, a suitable sup- annular ring 21 having a flange 22. In this ed to receive substantially the entire end of links 17 and will not be apt to become dis-

8 on the lower end of the standard 5 and a may be provided for the members 3 and 4 to

above the points at which these members 5, as shown, and it is readily apparent that response to pressure applied to the member

the screw 13 will not be rotated when the The intermediate positions of members

With the construction illustrated, the versuitable pivotal connection is provided for tical movement of links 17 is very slight and these links may be readily maintained 115 The link members connecting the back and completely masked by the seat ends 2. The seat members comprise a link at each end of construction described makes an extremely the seat, as at 17, extending between the light structure possible with a very slight two back and seat members, and each link space requirement for mechanism at each 55 is pivoted at one end to one of the standards end of the seat; requires a minimum of 120 parts; and the construction of the pivotal standard of the other member. As shown, connections is such that the connections are the links 17 comprise a straight, horizontal, not apt to work loose and the parts are not

cushion to be used is not material for the 65 plates 2. Referring to Fig. 3 it is seen that a a seat-cushion and the other side as a back- 130

cushion. Members 3 and 4 may be, for ex-straight, horizontally-extending, central porand shaped with suitable upholstery, if de-5 sired.

What I claim is:

said members and said supports.

20 thereof and each adapted to be positioned member and engaging the threads of said as a seat when the other is positioned as a bushing. back, and means for causing the movement of one member from seat to back position automatically in consequence of the move-25 ment of the other from back to seat position due to pressure applied to either member, said means comprising a link having a

ample, of wooden slat construction, double tion and an upturned portion at each end paneled or they may be otherwise formed and pivotally connected at its ends to said 30

similar members.

3. In a device of the character described, in combination, two members and means for 1. In a car seat, the combination of sup- pivotally connecting said members together, ports, a pair of similar seat and back mem- said means comprising a perforation in one 35 bers pivotally secured to said supports at of said members, an annular ring positioned 10 opposite sides thereof and a horizontally in said perforation and having an annular disposed link having a straight, central por- flange overlapping the periphery thereof, tion and an upwardly extending portion at a bushing seated within said ring and haveach end, pivotally connected at its respec- ing an annular flange overlapping one end 40 tive ends to said seat and back members thereof, a threaded perforation in said bush-15 substantially above the connection between ing, a perforation in said other member registering with the perforation in said 2. In a car seat, the combination of sup-bushing and a screw having a head overports, a pair of similar members pivotally lapping said other member and a shank ex- 45 secured to said supports at opposite sides tending through said perforation in said

This specification signed and witnessed

this 11th day of March, 1921.

RAYMOND F. STUBBLEBINE.

Witnesses:

WILLIAM J. EARNSHAW, R. M. Fries.