

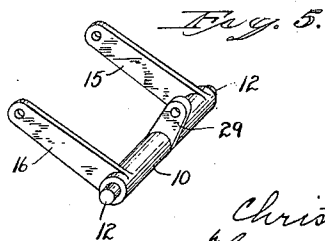
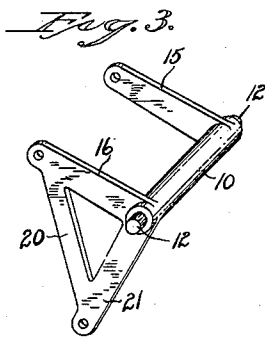
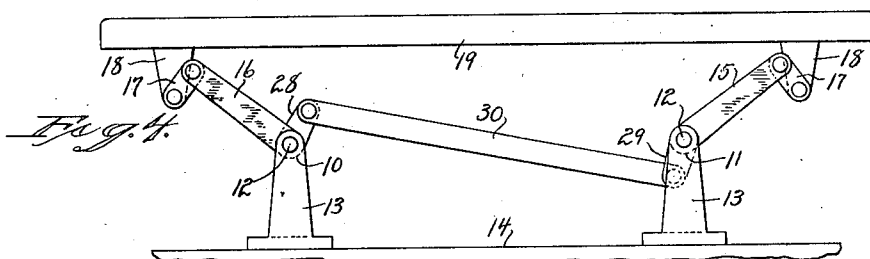
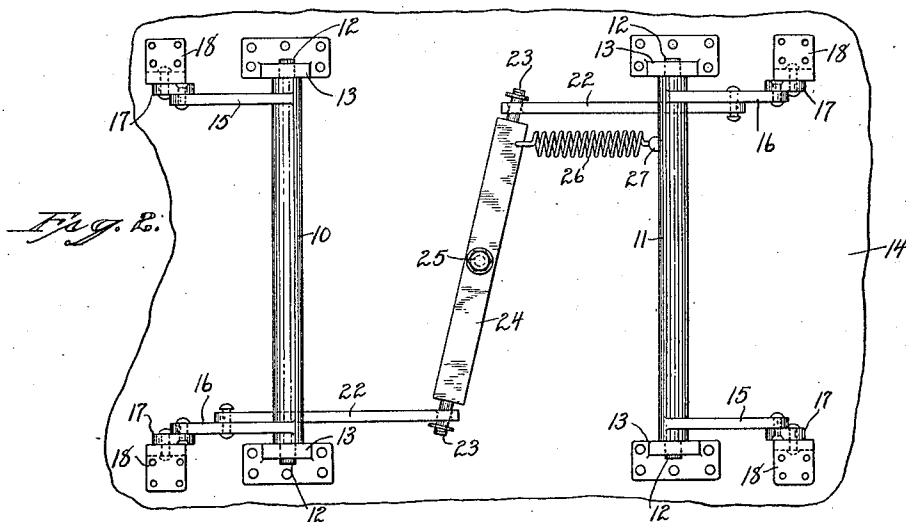
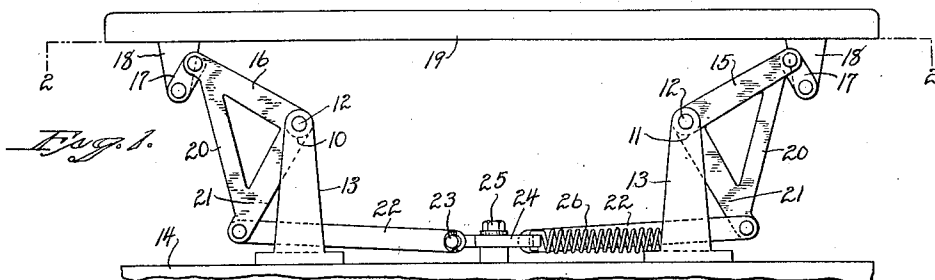
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C. PALLENBERG

RESILIENT SEAT MOUNT

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UNITED STATES PATENT OFFICE.

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RESILIENT SEAT MOUNT.

Application filed February 16, 1927. Serial No. 168,526.

This invention relates to an improvement in resilient seat-mounts which are particularly adapted for use in automobiles, but also useful in other situations where a shock-absorbing seat is desirable.

The object of this invention is to provide a simple and rugged resilient seat-mount constructed with particular reference to preventing undue rocking movement of the seat. With this object in view, my invention consists in a resilient seat-mount characterized by a pair of rocking-bars coupled together for synchronizing their movement and each having a pair of supporting-arms.

The invention further consists in a resilient seat-mount characterized as above and having certain details of construction and combinations of parts as will be hereinafter described and particularly recited in the claims.

In the accompanying drawings:

Fig. 1 is a broken view in front elevation of a seat equipped with my improved resilient mount;

Fig. 2 is a plan view of the mounting-mechanism looking downward from the line 2—2 of Fig. 1;

Fig. 3 is a detached perspective view of one of the rocking-bars together with its arms;

Fig. 4 is a view corresponding to Fig. 1 but showing another form which my invention may assume; and

Fig. 5 is a view corresponding to Fig. 3 but showing the form of rocking-bar employed in the modified form of construction shown in Fig. 4.

In carrying out my invention, as shown in Figs. 1 to 3 inclusive, I employ two corresponding rocking-bars 10 and 11, each of which is provided at its opposite ends respectively with trunnions 12 having bearing in the upper end of brackets 13 upstanding from the floor 14 of an automobile or other suitable support.

Each of the said rocking-bars is also formed with two upwardly and outwardly inclined supporting arms 15 and 16, each of which is pivoted at its outer end to a link 17 which, in turn, is pivoted to the lower end of a bracket 18 depending from the under side of the seat 19.

In line with the arm 16 of each of the rocking-bars 10 and 11 and connected to it by an integral brace-member 20, is a depend-

ing coupling arm 21, to the lower end of which is loosely pivoted a link 22. The inner ends of the links 22 just mentioned, one of which extends inward from the coupling arm 21 of each of the rocking-bars, are perforated for the reception of fingers 23 projecting outward respectively from the opposite ends of an equalizing-lever 24, which latter is pivoted midway of its length to the support 14 aforesaid by means of a stud 25.

From the foregoing it will be seen that each end of the seat is supported by the two supporting arms 15 and 16 of one of the rocking-bars 10 or 11, which are coupled together, as described, by the links 22 and lever 24, with the result that one end of the seat cannot move downward without causing a corresponding and substantially equal movement of the opposite end, these connections thus serving to maintain the seat in substantial parallelism with the floor 14.

To yieldingly resist the downward movement of the seat 19, I preferably employ a large helical spring 26 which is connected to one end of the lever 24 aforesaid and at its other end is connected to the floor 14 by means of a stud 27, though I do not wish to limit my invention to any particular arrangement of spring or springs for yieldingly resisting the downward movement of the seat.

In the modified form of my device shown in Figs. 4 and 5, I provide the rocking-bar 10 with a short upwardly and inwardly inclined coupling arm 28 and similarly provide the rocking-bar 11 with a short inwardly and downwardly inclined coupling arm 29. Pivoted to and extending between the outer ends of the said arms 28 and 29 is an equalizing-link 30, as clearly shown in Fig. 4.

While I have shown the brackets 13 as upstanding from the floor 14 and the brackets 18 depending from the seat 19, it is obvious that the entire device may be inverted without destroying its effectiveness by mounting the brackets 13 to the underside of the seat 19 and the brackets 18 to the top surface of the floor 14.

I claim:

1. In a resilient seat-mount, the combination with a seat-member and a support-member therefor, of a pair of rocking-bars, each formed with a pair of complementary supporting arms and with a coupling-arm

extending substantially at a right angle with respect to the said supporting-arms, means connecting the coupling-arms of the said rocking-bars together for synchronizing the rocking movement of the latter, means for securing the said rocking-bars to one of the said members with capacity for rocking movement, and means for connecting the outer ends of each of the said pairs of supporting arms to the other of the said members.

2. In a resilient seat-mount, the combination with a seat-member and a support-member therefor, of a pair of rocking-bars, each formed with a pair of complementary supporting arms and with a coupling-arm extending substantially at a right angle with respect to the said supporting-arms, means connecting the coupling-arms of the said rocking-bars together for synchronizing the rocking movement of the latter, bearing-brackets for securing the said rocking-bars to one of the said members, with capacity for rocking movement, and links for connecting the outer ends of each of the said pairs of supporting arms to the other of the said members.

3. In a resilient seat-mount, the combination with a seat-member and a support-member therefor, of a pair of rocking-bars, each formed with a pair of complementary supporting arms and with a coupling-arm extending substantially at a right angle with respect to the said supporting-arms, an equalizer-bar pivoted between its ends, two links connected at their respective opposite ends to the said equalizer-bar and to the coupling-arms of the said rocking-bars for synchronizing the rocking movement of the latter, means for securing the said rocking-bars to one of the said members with capacity for rocking movement, and means for connecting the outer ends of each of the

said pairs of supporting arms to the other of the said members.

4. In a resilient seat-mount, the combination with a seat-member and a support-member therefor, of a pair of rocking-bars, each formed with a pair of complementary supporting arms and with a coupling-arm extending substantially at a right angle with respect to the said supporting-arms, an equalizer-bar pivoted between its ends, two links connected at their respective opposite ends to the said equalizer-bar and to the coupling arms of the said rocking-bars for synchronizing the rocking movement of the latter, means for securing the said rocking-bars to one of the said members with capacity for rocking movement, means for connecting the outer ends of each of the said pairs of supporting arms to the other of the said members, and a spring connected to the said equalizer-bar for yieldingly resisting the downward movement of the said seat-member.

5. In a resilient seat-mount, the combination with a seat-member and a support-member therefor, of a pair of rocking-bars, each formed with a pair of complementary supporting arms, a coupling arm extending outward from each of the said rocking-bars, a horizontally-arranged equalizer-lever pivoted between its ends, two links connected at their respective opposite ends to the said equalizer-bar and to the coupling arms for synchronizing the rocking movement of the said rocking-bars, means for securing the said rocking-bars to one of the said members with capacity for rocking movement, and means for connecting the outer end of each of the said pairs of supporting arms to the other of the said members.

In testimony whereof, I have signed this specification.

CHRISTIAN PALLEMBERG.