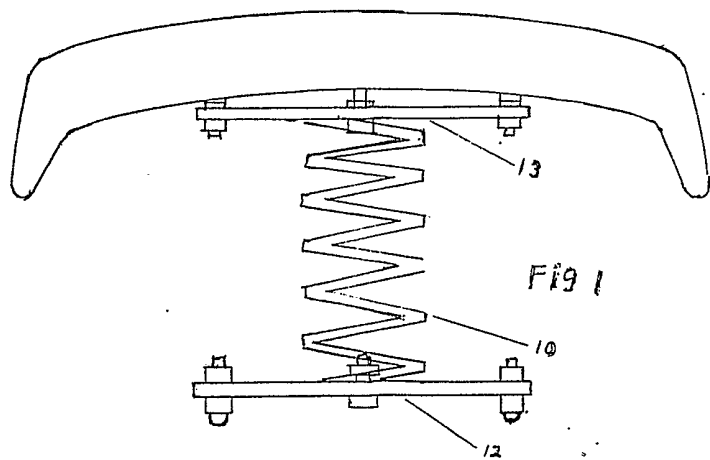
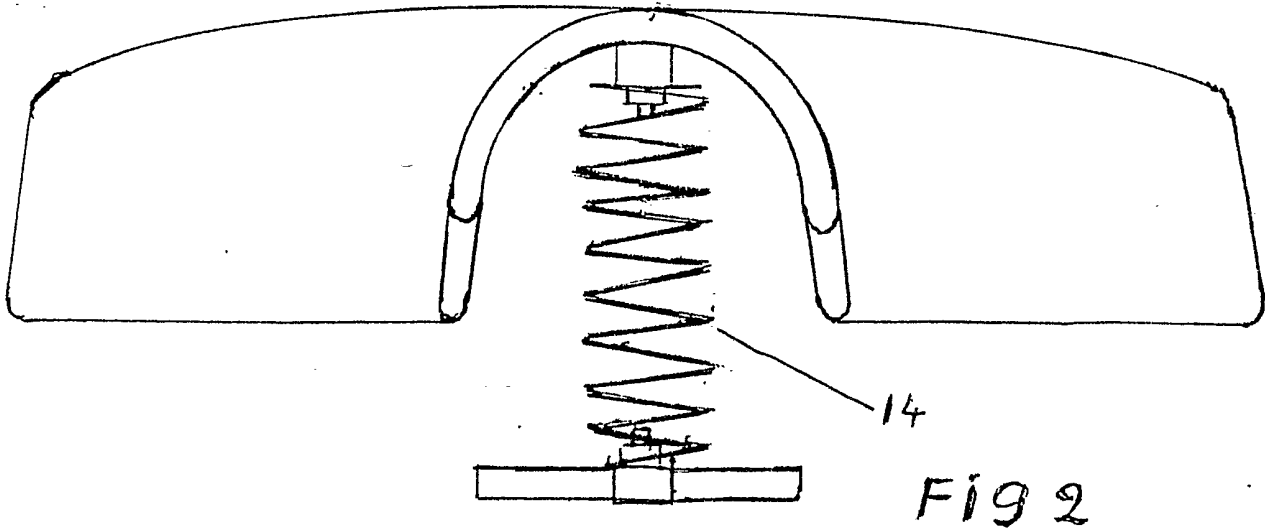
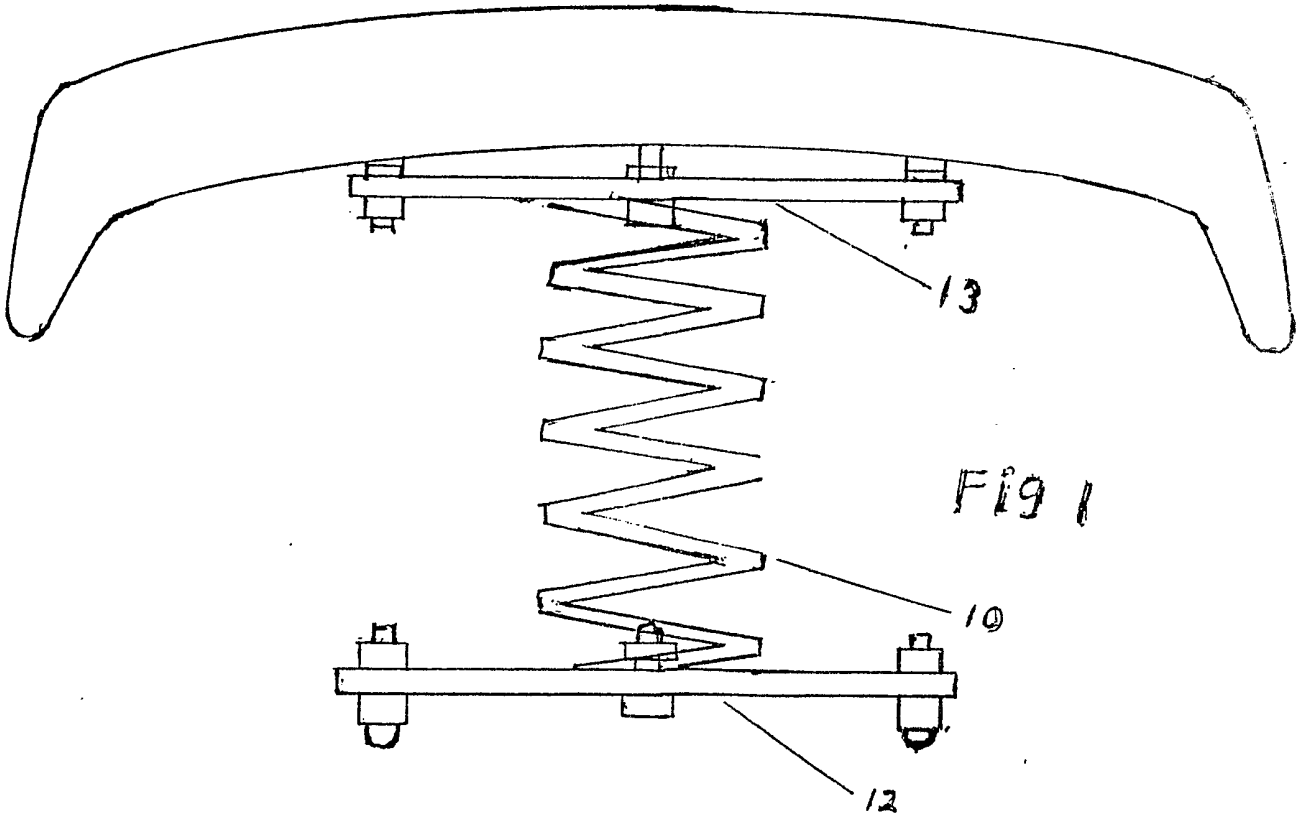


(21) Application No 8527164	(51) INTCL <sup>4</sup> B62J 1/02
(22) Date of filing 5 Nov 1985	(52) Domestic classification (Edition I) B7E PS
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(72) Inventor Michael Dineen	(58) Field of search B7E Selected US specifications from IPC sub-class B62J
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(54) Tilting saddle for bicycle

(57) A cycle saddle is mounted on its support at two points only, via two helical springs 10, 14 instead of the traditional three. These springs are located on the longitudinal centre of the saddle so that it may tilt laterally. Preferably the rear helical spring comprises a pair of concentric springs mounted via a pair of bars 12 and 13 located on the mountings of the original two rear springs.





## SPECIFICATION

### Tilting saddle for bicycle

5 A tilting saddle is an alteration to an old type of saddle.

To make one you would have to find an old type saddle with three springs on it.

10 First, you take the two springs off the back. Then find a spring that will fit inside one of them, the same gauge, then you have a double spring No 10. (Figure 1).

15 Next, you get two steel bars 12 & 13 (Figure 1)  $4\frac{1}{2} \times \frac{3}{4} \times \frac{3}{16}$ . Mark one off  $\frac{1}{2}$  inch from the end, drill a  $\frac{5}{16}$ " hole, put the hole in the bar on to one of the bolts at the top. Mark the centre of the one on the other side, drill a  $\frac{5}{16}$ " hole, the find the centre between the holes and drill another  $\frac{5}{16}$ " hole, place it on the other bar No: 13, and drill three holes to  
20 match.

Fix the bars and the centre spring together, then fix to saddle as shown on Figure 1.

Then take the front spring off and fit one the same diameter, only two gauges less No: 14. (Figure 2).

25 Then you will have a saddle that will tilt when cyclist presses down, and he will then be able to put more pressure on the pedals than he would on a saddle that does not tilt.

### 30 CLAIMS

1. A tilting saddle dose four things that cant be done with a saddle that dosent tilt | When the cyclest is going up hills or against the wind, he can tilt the  
35 saddle with his seat as he presses on pedals this will give him more power than pedaling around with his legs, when he gets to bottem he can repeat the proess on the other side he can keep it up as long as he want to, it is less tiring than pedlin around with  
40 the legs.

2. A tilting saddle helps to eliminate saddle sor-  
eness. When a cyclest rides on a fixed saddle there is movement between the riders seat and the saddle  
45 seat this in time causes soreness; with the tilting saddle there isent any movement, the seat of the saddle will move with the cyclest seat.

3. When the cyclest has to stop he can tilt the saddle this will enable him to put his foot on the road and stay reasonable upright, saves getting on and  
50 off.

4. A tilting saddle gives a comfortable ride, it springs up and down and sideways as well, when cruiseing it is as steady as fixed saddle.