

115,831

PATENT



SPECIFICATION

Convention Date (Italy), May 12, 1917.

Application Date (in the United Kingdom), Apr. 23, 1918. No. 6820/18.

Complete Accepted, Aug. 8, 1918.

COMPLETE SPECIFICATION.

Improved Spring Suspension for Motor Vehicles.

We, LANCIA & Co., of 99, Via Monginevro, Turin, Italy, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 It is known to employ a cantilever type of suspension for motor vehicles, in which the rear axle is connected with the free end of a laminated spring which is pivoted at its middle portion to the vehicle frame and is connected to the frame at the other end through links.

10 This invention consists in a spring suspension for motor vehicles provided with an ordinary semi-elliptical spring to the middle portion of which is pivoted the rear axle of the vehicle, and a laminated spring pivoted at its middle portion to the vehicle frame and having one of its ends connected with said frame and the other end connected with the vehicle rear axle.

15 A motor vehicle provided with a spring suspension according to this invention is illustrated in the accompanying drawing, in which

Figure 1 is a side view and

Figure 2 is a plan.

20 Each end of the rear axle 1 of the vehicle passes through a sleeve 2 to which are connected the laminated spring sections 3—3¹ connected at 4 and 5 with the vehicle frame and constituting an ordinary semi-elliptical spring.

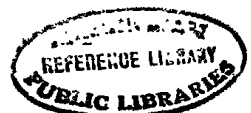
25 To the sleeve 2 there is connected, by a link 6, one end of a laminated spring 7 which is pivoted at its middle portion to the frame 8 by an eye 9 and spindle 10; the opposite end of said spring being connected with the frame by the pivot pin 11 and link 12. The resiliency of the several springs is arranged to give the total resiliency desired.

By means of this system a spring suspension is obtained which combines the satisfactory operation of cantilever springs with that of the ordinary semi-elliptical springs.

30 Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A spring suspension for motor vehicles provided with an ordinary semi-elliptical spring to the middle portion of which is pivoted the rear axle of the vehicle, and a laminated spring pivoted at its middle portion to the vehicle

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frame and having one of its ends connected with said frame and the other end connected with the vehicle rear axle.

2. The spring suspension for motor vehicles substantially as described or substantially as illustrated in the accompanying drawing.

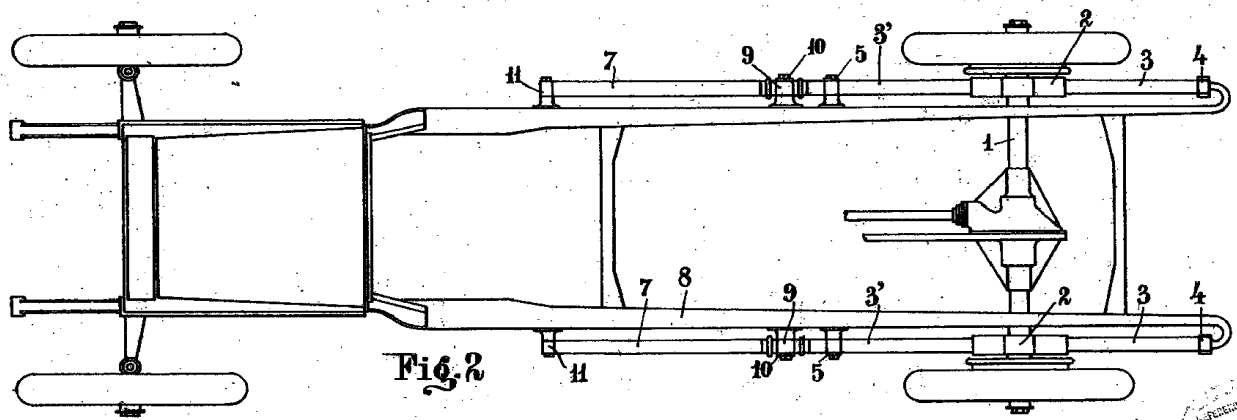
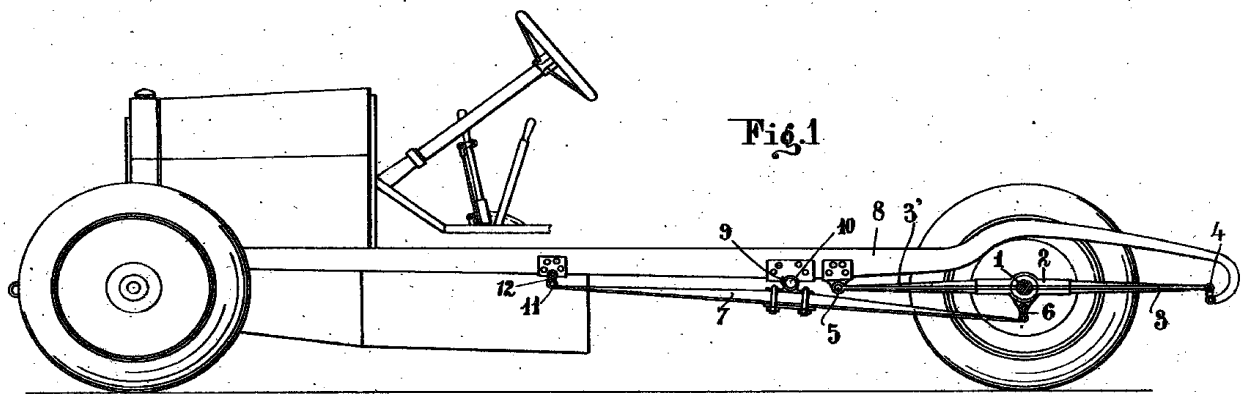
Dated this 23rd day of April, 1918.

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BOULT, WADE & TENNANT,
111 & 112, Hatton Garden, London, E.C. 1,
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[This Drawing is a reproduction of the Original on a reduced scale.]



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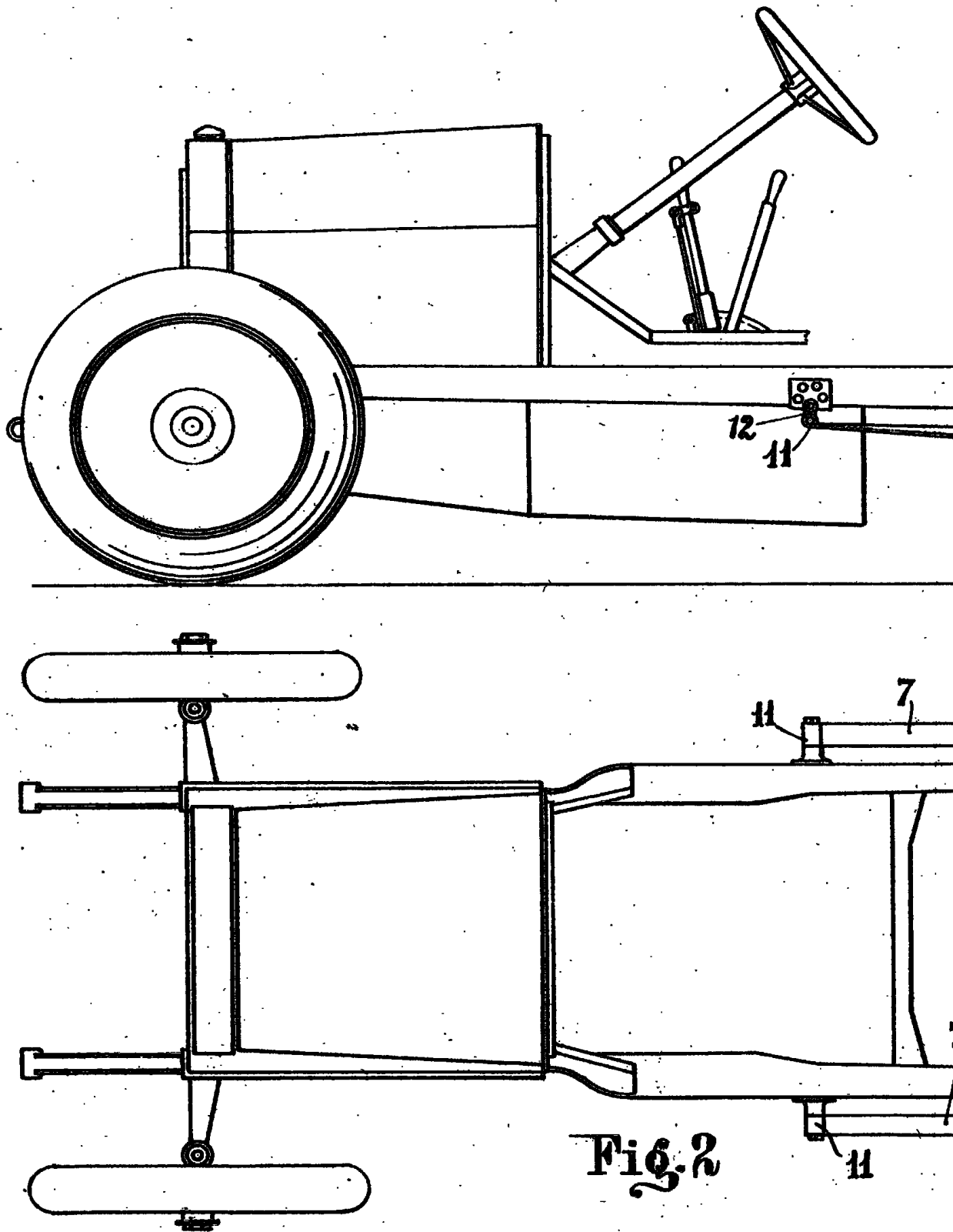


Fig. 2

Fig.1

