

PATENT SPECIFICATION



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190,456

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COMPLETE SPECIFICATION.

Improvements in the Arrangement of Driving and Power Transmission Mechanism in Motor Vehicles.

We, LANCIA & C., an Italian company, 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:—

This invention relates to improvements in motor vehicles. Constructions are known in which the engine, the clutch and the change speed gear are grouped near the front of the chassis, and this invention comprises disposing the engine, the clutch and the change speed gear one behind the other in the space covered by the bonnet. According to the invention, also the coupling between the change speed shaft and the propeller shaft is arranged in the space covered by the bonnet, so that by lifting the latter all the principal parts are readily accessible for inspection or repair.

In the annexed drawing which shows an embodiment of the present invention.

Figure 1 is a diagrammatic central section of a complete car;

Figure 2 is a plan view thereof.

In said figures, 1 is the engine, 2 the clutch, 3 the change speed gear box, these members being arranged in this order closely behind each other in the fore portion of the car in front of the dash board 4, and being thus protected by the bonnet 5.

With this arrangement by lifting the bonnet, access may be had for inspection and required repairs, both to the engine and to the change speed gear.

In the fore portion of the car forward of the dash board is preferably located the coupling for the driving shaft 6; in the embodiment illustrated this coupling

consists of a flexible joint 7 but it may consist of a cardan joint.

After the bonnet has been raised, the bolts of the coupling 7 may be taken off and thereafter the rear axle 8 may be removed; on the contrary such an operation is not possible in an ordinary motor car without removing part of the floor or the car body or locating the car above a pit and making the manipulations from beneath the car.

The described arrangement of the main parts of the car permits of using a body consisting of a sheet metal shell closed on its bottom and having a longitudinal inwardly projecting channel extending along it in which is located the driving shaft.

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 motor vehicle in which the principal parts of the driving mechanism are grouped at the front portion of the chassis, characterised in that the engine, the clutch and the change speed gear are arranged one behind the other in the space covered by the bonnet.

2. A motor vehicle as claimed in Claim 1 characterised in that the coupling between the propeller shaft and the change speed shaft is arranged in the space covered by the bonnet.

Dated this 16th day of November, 1922.

LANCIA & C.,
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[This Drawing is a full-size reproduction of the Original]

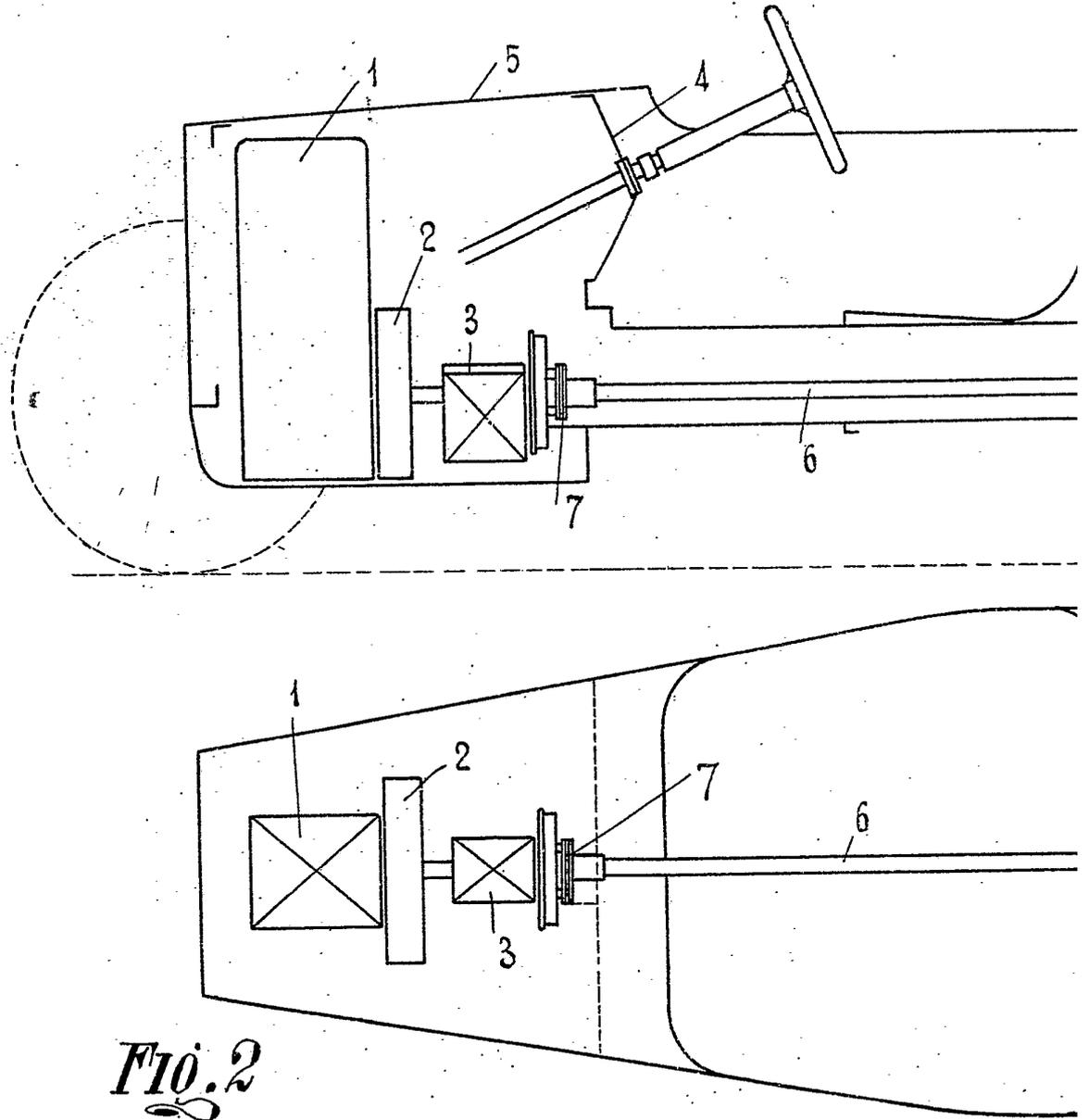
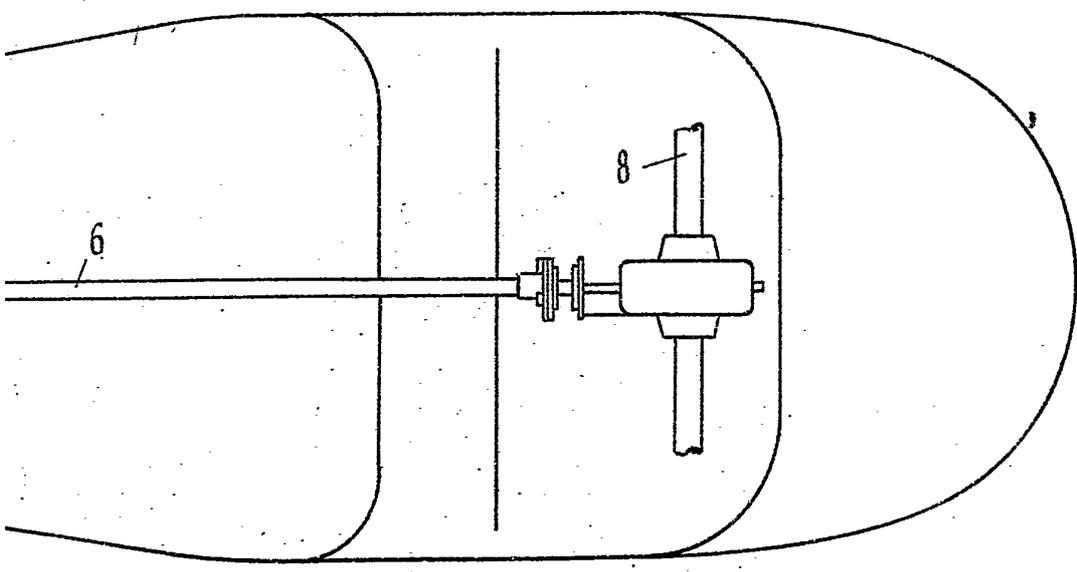
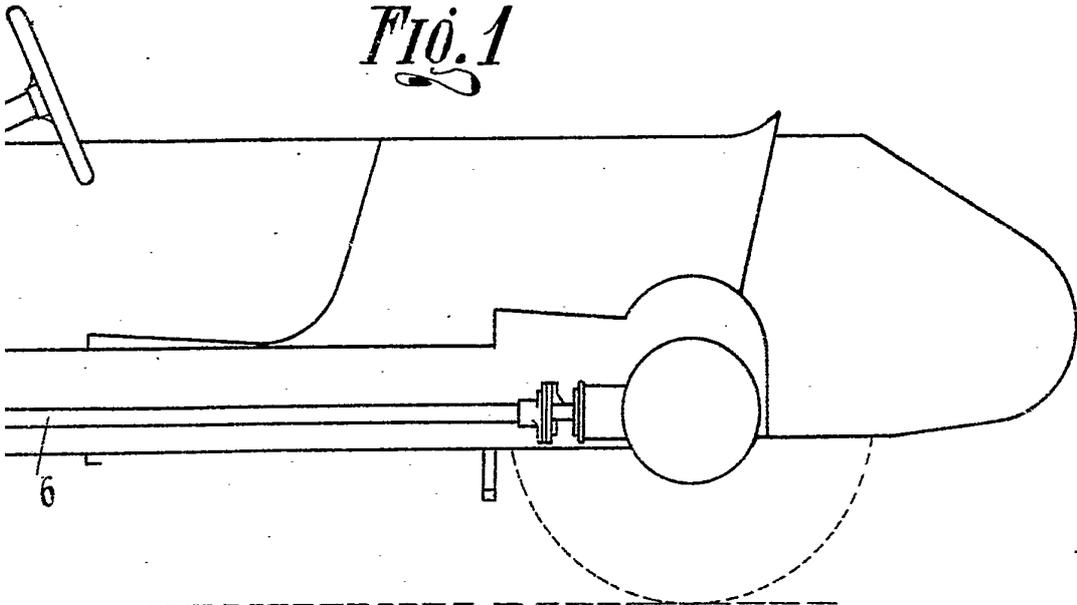


FIG. 2

FIG. 1



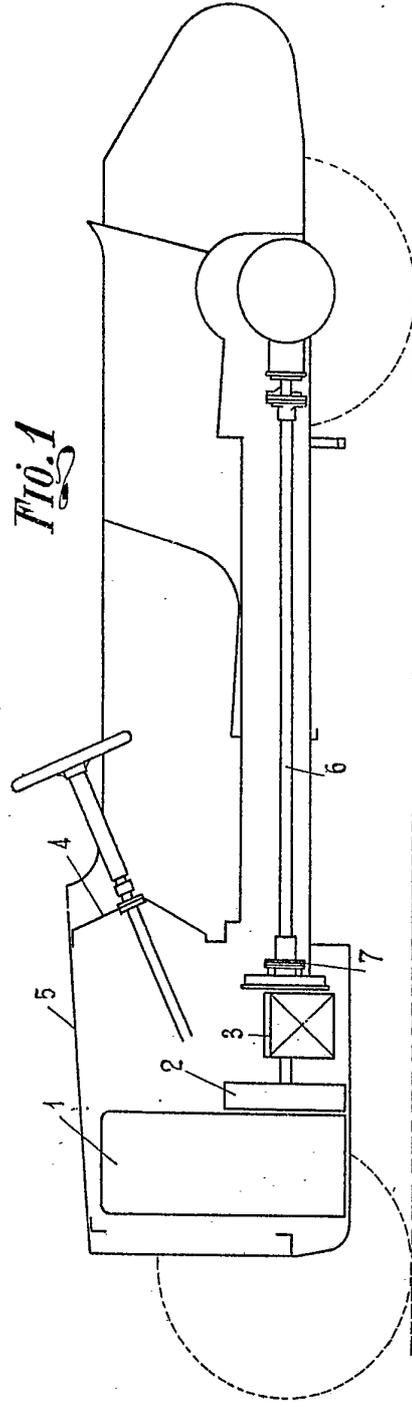


FIG. 1

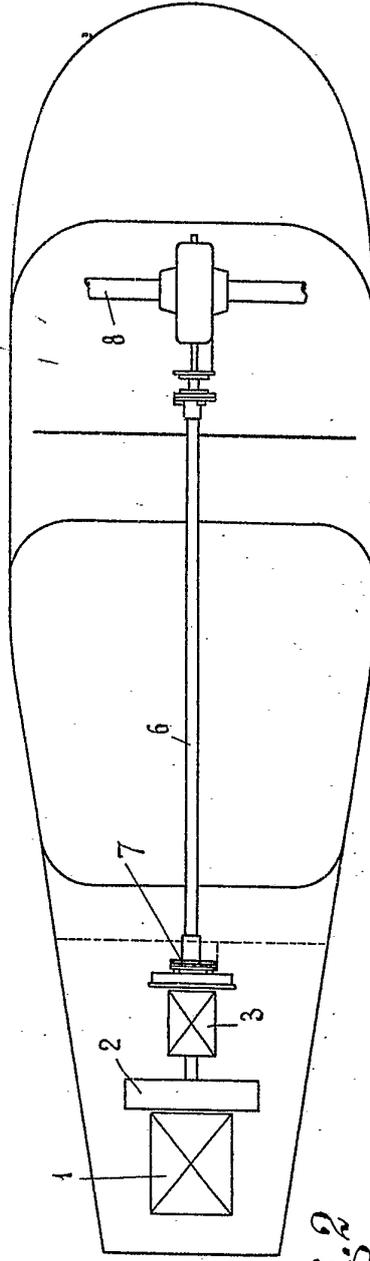


FIG. 2

[This Drawing is a full-size reproduction of the Original.]