

# PATENT SPECIFICATION



Convention Date (Italy): Jan. 12, 1928.

303,885

Application Date (in United Kingdom): Dec. 20, 1928. No. 37,683/28.

Complete Accepted: May 2, 1929.

COMPLETE SPECIFICATION.

## Improvements in or relating to Chassis for Motor Vehicles.

I, VINCENZO LANCIA, trading as LANCIA & C., of 99, via Monginevro, Turin, Italy, an Italian Subject, 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 the construction of chassis for motor vehicles, constituted by two longitudinal elements connected together by cross members. It is known to use for such chassis tubular cross members, and for the construction of a small power motor vehicle having a chassis formed by two sides, it has been proposed to connect to the said two sides near their upper edge and at a point intermediate between their ends, the ends of a parallelo-  
piped box of sheet metal forming a support for a seat and serving as a petrol tank.

According to the invention, the chassis consists of two longitudinal elements connected together by cross members, and to the rear ends of which the ends of a hollow body of sheet metal are rigidly connected, the section of the said hollow body being sufficiently large to constitute or to contain the fuel tank.

The accompanying drawing shows by way of example a construction according to the invention. In the same, Figure 1 shows the chassis diagrammatically in plan and Figure 2 is a vertical longitudinal section on an enlarged scale of the rear end of the chassis.

In the drawing, 1 and 1<sup>1</sup> are two longitudinal members of the chassis which are connected together by cross members such as 2, in any suitable manner. The two longitudinal members 1 and 1<sup>1</sup> are further connected together, close to their rear end, by a cross member constituted by a hollow body 3 of metal plate, the cross-section of which, more or less elongated is of con-

siderable dimensions. This hollow body 3 is secured at its ends to the longitudinal members. It thus constitutes a transverse connection member which, owing to its hollow shape and to the extent of its walls, offers a great resistance to deformation in any direction, and therefore efficiently opposes vertical movement of one longitudinal member relatively to the other.

The hollow body 3 can be utilised to constitute, or to contain, a tank, for instance for the fuel, and to that end it can be provided with covers or connected with a tight joint to the solid ends of the longitudinal members 1, 1<sup>1</sup>. The hollow body 3 is finally provided with a hole closed by a plug 4.

The described construction makes it possible to increase the transverse rigidity of the chassis without increasing its weight, and the hollow cross member 3 can be utilised for instance for containing fuel.

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

1. A chassis for motor vehicles of the type comprising two longitudinal elements connected together by cross members, and in which the ends of a hollow body of sheet metal are rigidly connected to the rear ends of the said longitudinal elements, the section of the said hollow body being large enough to constitute or to contain a fuel tank.

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

Dated this 20th day of December, 1928.

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Fig.1

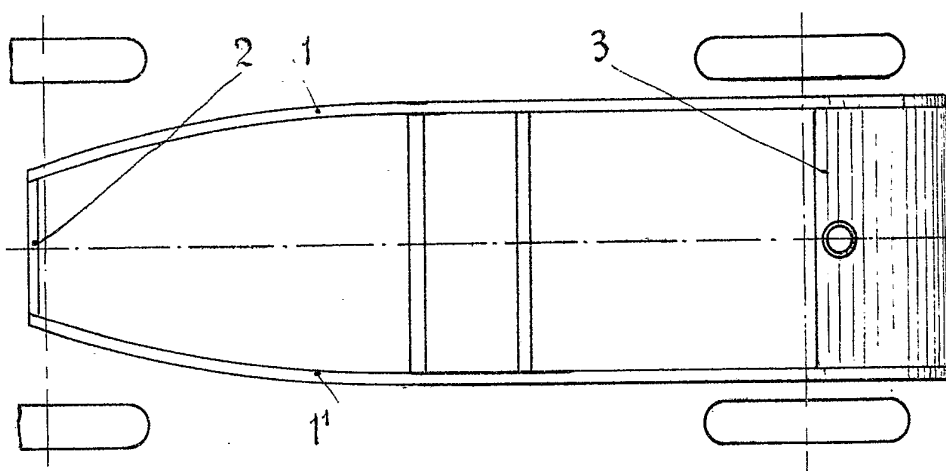
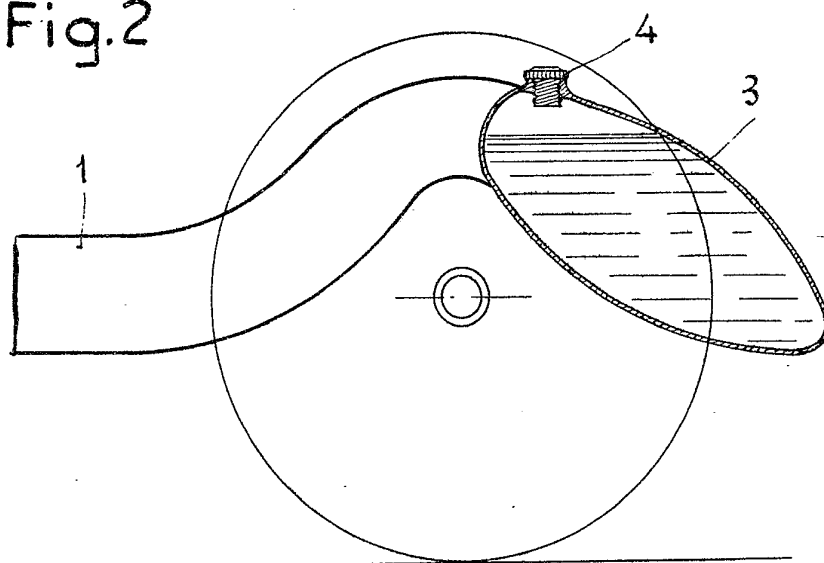


Fig.2



[This Drawing is a reproduction of the Original on a reduced scale.]