PUBLISHED
MAY 11, 1943.
BY A. P. C.

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VEHICLE MOVING ON RAILS

Filed Jan. 31, 1940

Serial No.
316,577

Fig.1

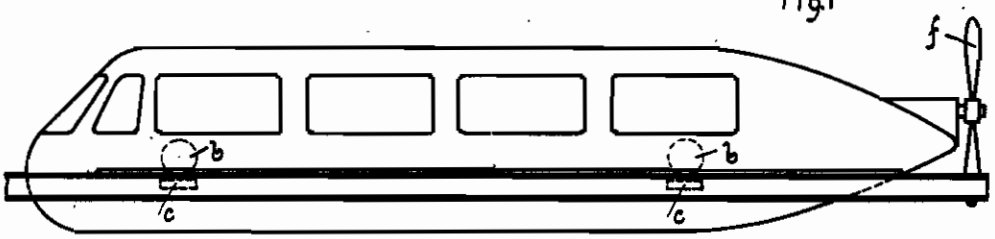
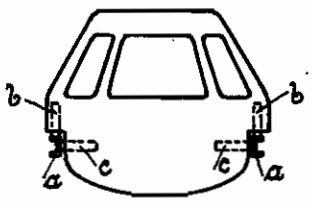


Fig.2



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Published May 11, 1943

Serial No. 316,577

ALIEN PROPERTY CUSTODIAN

VEHICLE MOVING ON RAILS

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Application filed January 31, 1940

This invention relates to a vehicle moving on rails, which is formed so as to allow running at high speed. According to the invention, this is obtained by that the lower part of the vehicle is submerged between the rails. Thereby, it is achieved that the centre of gravity of the vehicle lies very deep with regard to the rails, to which is due the high stability of the vehicle. The particular arrangement of the vehicle will permit to provide, besides the wheels with horizontal axes, a few pair of wheels having vertical, or almost vertical, axes, such wheels being supported by the inner or outer surfaces of the rails. In this way, the lateral pressures are efficiently parried.

In the drawing, an embodiment of a vehicle according to the invention is depicted by way of example, Fig. 1 showing a side view and Fig. 2 showing a back-view of the same. In Fig. 2, the back-wall of the vehicle is partly broken off so as to discover the arrangement of the wheels. Preferably, the shape of the vehicle resembles that of a cigar. At *b* two couples of wheels are arranged which rest on rails *a*. At *d*, the lower portion of the vehicle is submerged between the rails so that the centre of gravity of the vehicle, relatively to the upper edge of the rail lies deeper than it is the case with the usual railway carriages. In order to have sufficient room for the submerged portion of the vehicle, it is advisable not to lay the rails direct on the ground, but to arrange them on standards standing on the soil. In the submerged portion of the vehicle are arranged couples of wheels c having vertical axes. Such wheels *c* are supported by the inner faces of the rails *a*, and will parry lateral pressures. Support of the wheels may, however, also be effected by suitably shaping, and arranging, these wheels on the outer surfaces of the rails.

The wheels *c* may be of conical shape and arranged sloping in respect of the vertical plane. Due to the said support, derailment owing to curves, or wind pressure, is rendered impossible. On the other hand, the stability of the carriage and lack of perturbation will allow to maintain extraordinary high speed. The vehicle according to the invention may be driven by a propeller *f*, and the wheels or a few of the wheels may be provided with a rubber or like tire.

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