

NOTE.—The application for a Patent has become void.

This print shows the Specification as it became open to public inspection.

PATENT SPECIFICATION



Convention Date (France): Dec. 6, 1923.

225,873

Application Date (in United Kingdom): Dec. 6, 1924. No. 29,324/24.

Complete not Accepted.

COMPLETE SPECIFICATION.

Improvements in or relating to Road Vehicles.

I, ADOLPHE KEGRESSE, a citizen of the French Republic, of 53, rue Balard, Paris, France, 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:—

In travelling over broken ground, it frequently happens that a vehicle is stopped by obstructions having vertical walls of comparatively small height, against which the front wheels of the vehicle strike. Even in the case of vehicles with projecting endless tracks, a vertical wall, the height of which is greater than the radius of attack of the endless track, becomes an unsurpassable obstacle; and this is explained by the fact that the gripping portion of the track has a speed equal to the speed of advance of the machine. The speed required by the vehicle in order to rise, does not correspond to the speed of advance; and this results in a bad efficiency of the whole. The endless track digs into the ground without raising the vehicle against the vertical wall.

The present invention relates to a device by means of which a motor vehicle can automatically climb over a vertical wall.

In the accompanying drawing,

Figure 1 shows by way of example, an elevation of a vehicle provided with a device according to the invention.

Figure 2 is a plan of the same machine.

The vehicle can be either an ordinary motor car or a motor car with several

driving axles, or an endless track vehicle as shown in the accompanying drawing. 40

At one end of the vehicle wheels or drums 1 provided with projections are mounted on an axle 2 connected to the vehicle by suitable brackets 3. The drums are given by the engine a movement of rotation, the speed of which is smaller than that of the propelling mechanism of the vehicle. 45

The driving of the wheels or drums 1 can be effected either by a simple chain 4 driven from the front pulley 5 of the endless track mechanism, or by any other known mechanical device such as gear wheels in combination with a shaft, whether provided with a cardan joint or not. 55

The working is as follows:

When the machine meets an obstacle end on, it strikes it with its projecting drums 1. This drum being on the one hand strongly pressed against the obstacle by the driving mechanism of the vehicle, and on the other hand being driven at a suitable speed, smaller than the speed of horizontal advance of the whole, the front of the vehicle will rise over the obstacle. 65

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:— 70

1. A device constituted by wheels or rollers provided with projections, mounted in front of a vehicle at a certain height above the ground, the said wheels or rollers being driven by the engine 75

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Price 25p

through chains or other suitable mechanism at a speed different from the speed of advance of the vehicle itself, and enabling the latter to climb automatically
5 over the vertical walls of obstacles.

2. The mechanism for road vehicles substantially as described or substantially

as illustrated in the accompanying drawing.

Dated this 6th day of December, 1924. 10

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Fig.1

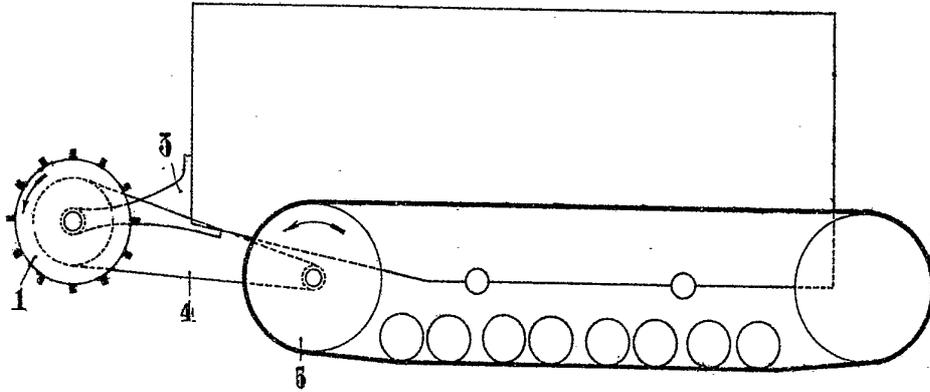


Fig.2

