PATENT SPECIFICATION

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Complete Accepted: April 22, 1926.

COMPLETE SPECIFICATION.

Improvements in or relating to Endless Track Vehicles.

I, ADOLPHE KEGRESSE, citizen of the French Republic, of 48, rue du Théâtre, 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:—

This invention relates to endless track driven vehicles, in which each of the devices supporting an endless band, comprises a driving pulley, a guide pulley and sets of bearing rollers between the said two pulleys.

At present, the driving pulley is mounted at the back, and the guide pulley in front. This arrangement necessitates the use of guide members maintaining contact between the endless band and the bearing rollers. These members generate friction absorbing a considerable part of the motive power at the expense of efficiency.

This invention comprises a novel method of mounting the endless tracks characterised by the driving pulley being arranged in front, and the guide pulley at the back in such a manner that it automatically assumes the proper direction.

This method of mounting enables the adjustable or orientable guide pulley to follow, when the vehicle is turning, all the deformations of the endless band, and to remain constantly in contact with the said band. It therefore enables the guide members for the bearing rollers to be done away with, and therefore also those of the band forming the track, which contributes to the increase of efficiency in very large proportions, owing to the elimination of the friction above referred to.

The method of mounting also enables obstacles in the track to be overcome more easily, as the obstacle exerts pressure on the band, and causes a better adherence of the latter to the driving pulley. This ease of overcoming obstacles is further increased by having the driving pulley of greater diameter than the receiving pulley.

A construction according to the invention is illustrated by way of example in the accompanying drawings in which

Figure 1 shows an endless track driven car according to the invention, in elevation.

Figure 2 being a detail view showing the mounting of the guide pulley situated at the rear.

In this drawing, 1 is the endless band or track at one side of the vehicle, 2 the driving pulley which, as will be seen, is arranged in front. The bearing rollers are marked 3 and 4 is the automatically adjustable or orientable guide pulley arranged at the back.

The arrows indicate the direction of rotation of the pulleys 2 and 4, and the direction of movement of the band.

The driving and guide pulleys may or may not be provided with guides for the endless track.

The pulley 4 may be mounted in any desired manner; it is only necessary that this mounting allows of a free adjustment or orientation of the said pulley.

Such a mounting may be effected for instance in a very simple manner as shown in Figure 2, by supporting the pulley 4 by a bracket 5, mounted in its turn on a ball joint 6 by means of a part 7 secured to the frame 8 of the vehicle.

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. An endless track driven vehicle, characterised by the driving pulley being

arranged in front, the guide pulley being arranged at the back and being adjustable or orientable while the driving and guide pulleys are provided, or not, with guides for the endless track.

2. The endless track driven vehicle substantially as described or substantially as illustrated in the accompanying drawings.

Dated this 28th day of July, 1925.

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Fig.1

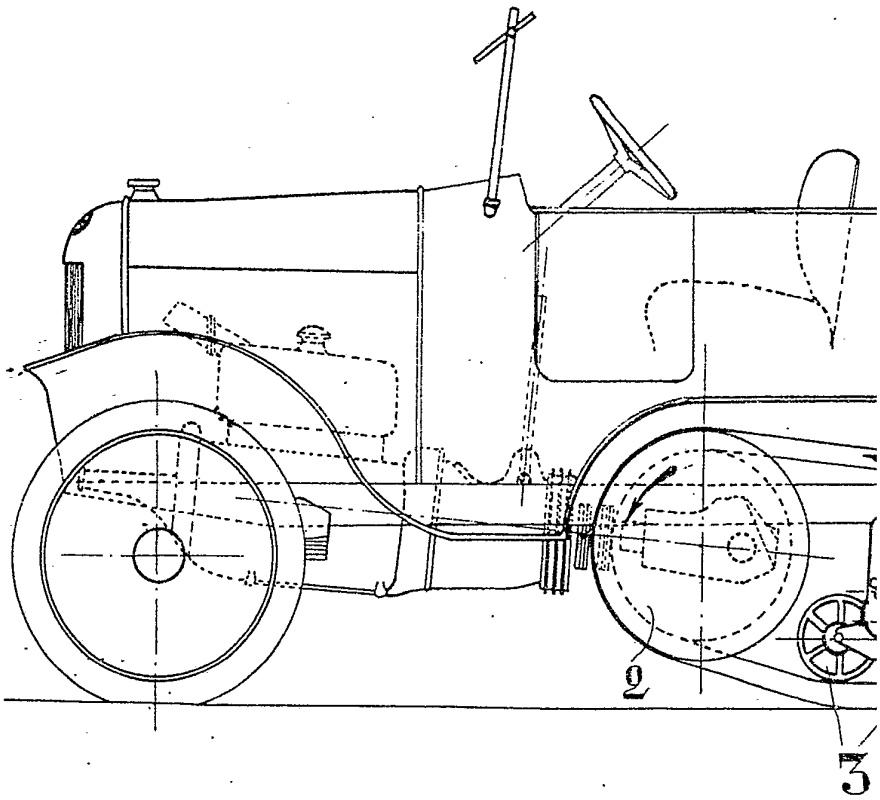


Fig.2

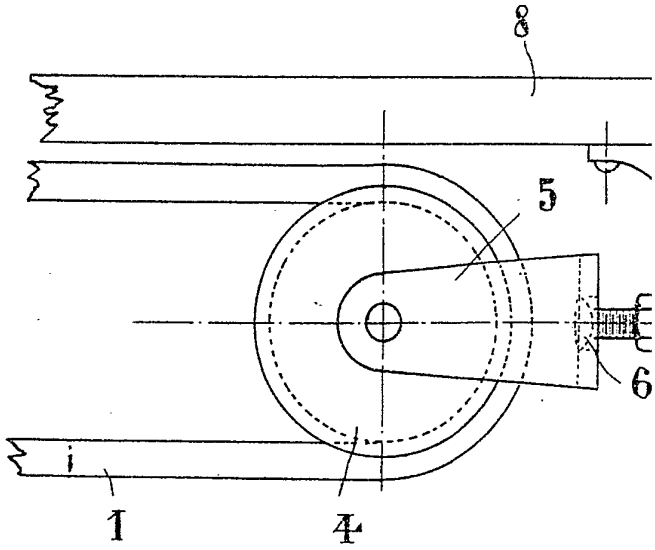


Fig.1

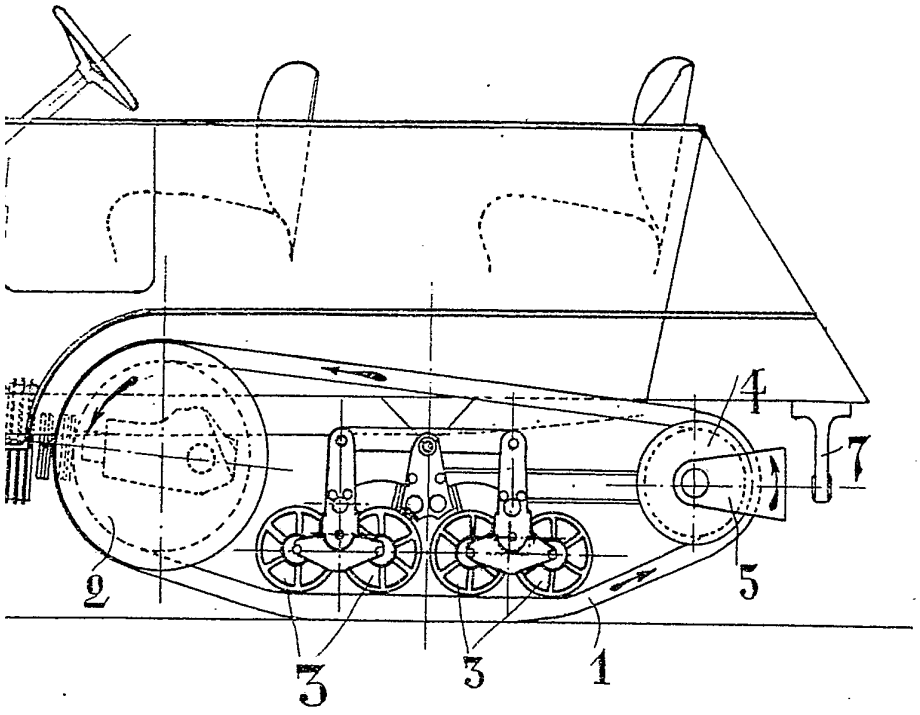
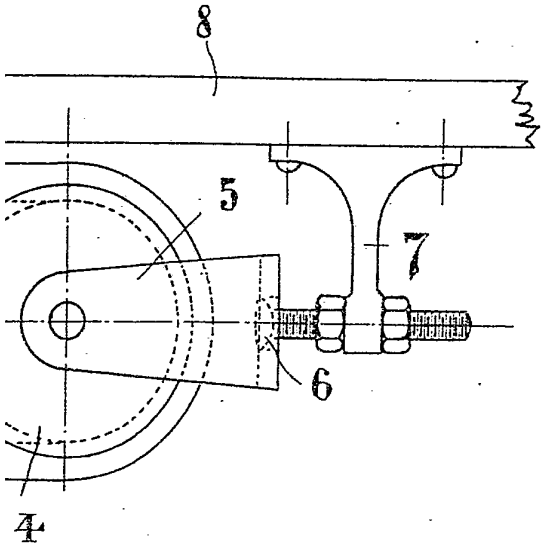


Fig.2



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

Fig.1

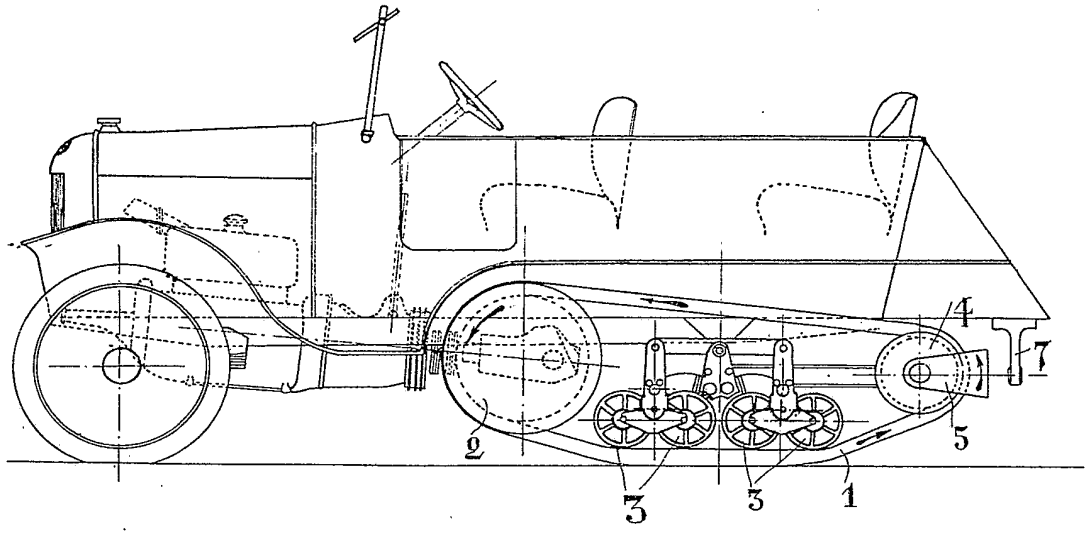
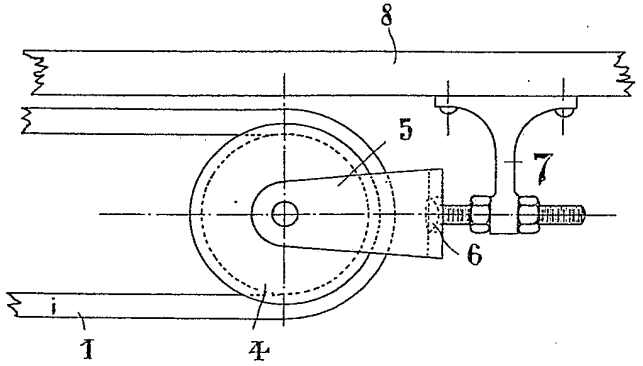


Fig.2



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