

# PATENT SPECIFICATION



Convention Date (France): April 9, 1924.

**232,238**

Application Date (in United Kingdom): April 8, 1925. No. 9442/25.

Complete Accepted: June 11, 1925.

## COMPLETE SPECIFICATION.

### Improvements in or relating to Mountings for Endless-track Vehicles.

I, ADOLPHE KEGRESSE, of 53, rue Balard, Paris, France, French citizen, 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 mountings for endless-track vehicles and has for its object to provide an improved mounting adapted to distribute the load transversely and to permit of obtaining transverse rocking of the rollers according to the unevennesses of the road-surface in contact with the endless track without any possibility of such rocking or swinging causing injurious lateral frictions on the central track guiding members.

The invention consists in means to effect a transverse shifting movement of the carrier-rollers relative to the support-frame connecting the rollers with the vehicle according to an arc of a circle the centre of which is at the base of the guide blocks of the endless track.

In order to make the invention clear there is in the accompanying drawings illustrated, as an example, a practical embodiment of the connection of a pair of carrier-rollers with the support-frame permitting the circular shifting which is the characteristic feature of the invention.

In the said drawings:—

Figure 1 is a cross-section, half end-viewed, of a carrier-roller bogie mounted according to this invention.

Figure 2 is an elevation, and half lateral section thereof; and

Figure 3 an end view corresponding to Figure 1 and showing diagrammatically the position of the parts on a transverse shifting or displacement.

[Price 1/-]

In all the figures like numerals designate like parts.

Carrier-rollers 1 are mounted on an axle 2 the central part of which has an aperture (3), circular shaped and of R radius, the centre O of which is located at the base of the guide-blocks 9 of endless track 10.

Axle 2 (Figure 1) is freely mounted on a rocking beam 4 itself connected by parts 5 with the remainder of the carrier frame.

The ends of rocking beam 4 (Figures 1 and 2) are fitted, with slight upward play, in the circular aperture 3 of the axle 2, leaving on each side an empty space within such aperture.

Axle 2 is maintained on the rocking beam 4 in the direction of travel indicated by arrows (Figure 2) and with some play allowed, on the one hand by a shoulder 6 (Figure 2) and on the other hand by a thrust plate 7 and a nut 8 (Figure 2).

The working of the device is as follows: On a perfectly level ground and under the effect of the load P transmitted to axles 2 through rocking beam 4, the two rollers apply the endless track on the ground over its entire width (Figure 1).

At the moment of negotiating say a stone (Figure 3) the roller that has to over-creep it can be lifted since its axle 2 is adapted to slide within the rigid rocking beam 4. The centre of circular displacement of the device being taken on a centre O of the base of the endless track guiding blocks 9, the whole system, endless track and rollers, will always shift round this centre without occasioning any injurious lateral thrust on the said blocks.

The travel of the axle 2 is limited by the length of the aperture 3, thus preventing excessive lateral wobbling of the rollers.

5 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:—

10 1. In an endless track mounting for vehicles means to distribute the load transversely on the said track, in which the carrier rollers are mounted relative to the frame connecting them to the vehicle  
15 in such a manner as to allow them according to the unevennesses of the ground in contact with the endless track, to be shifted transversely along an arc of a circle the centre of which is at the  
20 lower part of the endless track guiding-blocks.

2. An embodiment of the device according to Claim 1 in which the rollers are mounted on an axle having a circular aperture, the centre of which aperture 25 is at the base of the endless track guiding-blocks; and in which a rocking beam connected with the frame, runs with easy friction through the said aperture while leaving an empty space on each side so  
30 as to permit a relative displacement or shifting of the two parts.

3. The endless track mounting for vehicles substantially as described or substantially as illustrated in the accompanying drawings.

Dated this 8th day of April, 1925.

ADOLPHE KEGRESSE,  
Per Boulton, Wade & Tennant,  
111/112, Hatton Garden, London, E.C. 1, 40  
Chartered Patent Agents.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1925.

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

Fig1

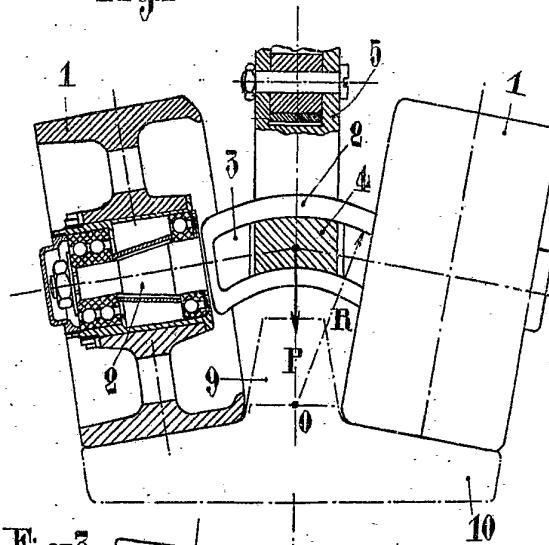


Fig 3

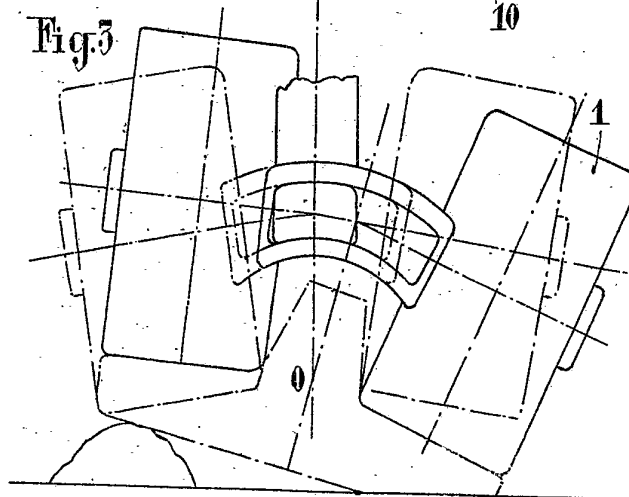


Fig 2

