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A. KEGRESSE

2,111,475

FLEXIBLE MOUNTING FOR CARRYING ROLLERS ON VEHICLES

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Fig. 2.

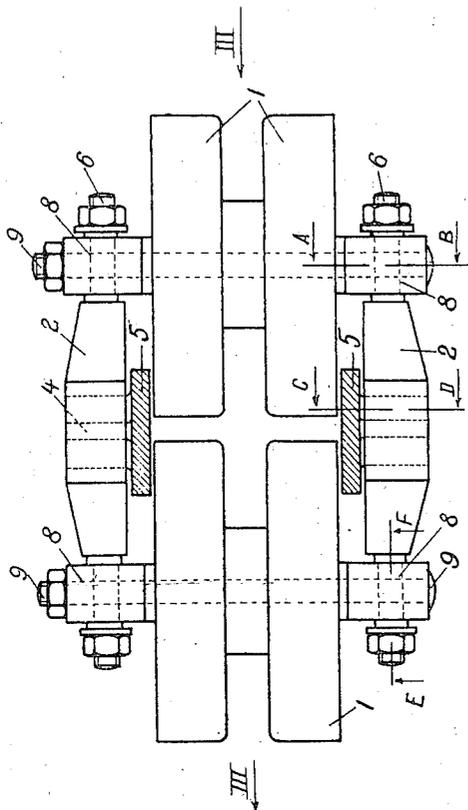


Fig. 1.

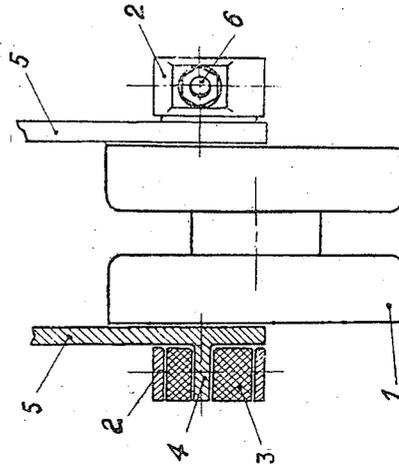
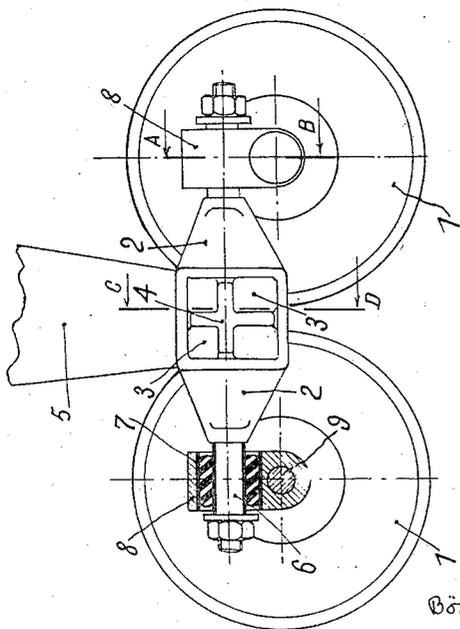
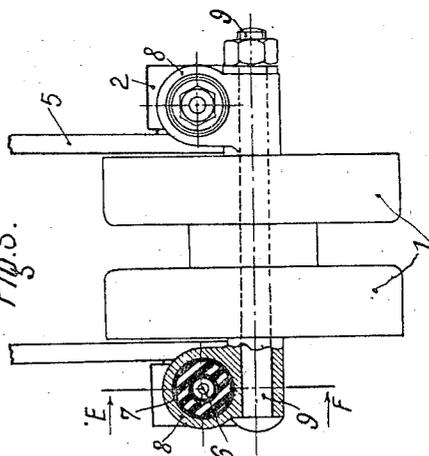


Fig. 4.

Fig. 3.



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FLEXIBLE MOUNTING FOR CARRYING ROLLERS ON VEHICLES

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In France December 12, 1934

1 Claim. (Cl. 305—9)

The French Patent No. 752,959 of the 13th July, 1932 describes a flexible mounting for the equalizer of a set of rollers on one of the parts adjoining the chassis of the vehicle.

This resilient mounting, although giving good results in practice, is incomplete.

In fact, if a unit formed by a carrying bogie having two rollers is considered, it will be seen that the rollers are mounted rigidly on the equalizer or equalizers connecting them, so that, on imperfectly flat ground, the rollers do not bear on the endless track throughout the entire widths of their rims. This results in unavoidable overloads, tending to create wedging which is very harmful to the track, especially when the latter is made of rubberized fabric.

In other words, the rollers do not work normally to the ground and their axes almost always make a more or less pronounced angle with the latter.

The present invention relates to a mounting for the endless-track carrying bogie rollers on their equalizer, enabling them to work normally to the ground.

In the accompanying drawings by way of example:—

Figure 1 is a side elevation, partly in section along lines 1—1 of Figs. 2 and 3, of a construction according to the present invention.

Fig. 2 is a plan view of the construction.

Fig. 3 is an end view of the construction, the sectioned part of which is taken on line 3—3 of Figs. 1 and 2.

Fig. 4 is a view similar to Fig. 3 with the front roller removed, the sectioned part of this figure being taken on line 4—4 of Figs. 1 and 2.

In the figures, the carrying train is a system of double rollers connected in pairs by means of two like equalizers disposed exteriorly of the rollers.

The rollers 1 of the carrying bogie are connected to the equalizer 2. The latter is mounted on the machine by means of resilient blocks 3 for example of rubber housed in the said equalizer 2.

A cross-shaped part 4 secured to a part 5 fixed

to the vehicle separates the blocks 3 from each other.

The equalizers 2 terminate at each of their ends in a cylindrical part 6 which carries a sleeve 7 of rubber or other flexible material fixed on the cylindrical part 6 of the equalizers 2.

The sleeve 7 is forcibly fitted in a head 8 secured to the axle 9 of the rollers 1.

In the drawings, the resilient sleeve 7 is shown above the axis of the rollers. It is evident that it may also be below the said axis, and even in line therewith, without in any way altering the idea of the invention.

It will be seen from this description that the rollers connected to their equalizer by a flexible coupling can remain constantly parallel to the ground to the extent permitted by the resilient systems 3 and 7. It should be remarked that in the very considerable unevennesses of the ground, the deformation of the system will be limited resiliently by the compression of the resilient materials 3 and 7.

The system described and shown in the drawings may be applied to any carrying system having rollers mounted on oscillating equalizers, the axles of the rollers being always adapted to be connected to their support according to the invention. That is to say, the device described may be applied equally well both to single equalizer systems having external rollers and to double equalizer mountings as described.

I claim:

In an endless track vehicle, a carrying roller support, an equalizing beam elastically mounted intermediate its ends on each side of said support, a cylindrical element carried by each end of said equalizing beams, the axes of said cylindrical elements being parallel to the longitudinal axes of the equalizing beams, a sleeve of resilient material surrounding each of said cylindrical elements, an axle carrying block surrounding each sleeve, an axle extending between corresponding pairs of blocks at each end of the equalizing beams, and rollers mounted on said axles.

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