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# PATENT SPECIFICATION



Convention Date (France): Aug. 23, 1921.

185,118

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## COMPLETE SPECIFICATION.

### Improvements in or relating to Endless Track Vehicles.

I, ADOLPHE KEGRESSE, of 28, Avenue de Tourville, Paris, France, a 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 comprises improvements in the invention described in Specification No. 168,331 which relates to endless track vehicles.

The invention aims at providing a train of carrier wheels for use on endless track vehicles, in which train the elements for automatically dividing the load are hermetically enclosed in the main beam for the purpose of keeping them out of contact with water, grit and the like and consequently allow the said elements to be satisfactorily lubricated.

According to this invention the axes of the plungers on which the wheels are mounted lie in the line of action of the resultants of the forces or thrusts acting on the wheels. The plungers are enclosed in fluid-tight devices each comprising two rigid protective casings telescopically engaging one with the other, a space being provided between the said casings in which is located a protective sheath mounted so as not to allow the escape of fluid and made of flexible material to allow free relative movement between the rigid protective casings and the plunger.

A constructional example of the invention is illustrated in the single figure of the accompanying drawing, which illustrates a carrier train with three pairs of wheels.

The carrier wheels are secured to the lower end of the plungers 6 the axis of which is inclined to the vertical in accordance with the direction of motion so that the plungers move in the direction of the resultants of the thrusts exerted upon the wheels, the said thrusts being

dependent upon the load on the wheels and the resistance to motion.

A point of great importance is that the plungers should be enclosed. To this end, and referring to the drawing, the said plungers are enclosed in a fluid-tight cylindrical protective sheath 28 made of leather or other flexible material. One of the ends of the said sheath is secured to the central lever 4, the other end being secured to a protective casing 26 constantly bearing on a support carrying the pins of the wheels. A second protective casing 27, connected to the lever 4 and adapted to slide over the casing 26 prevents the leather sheath from coming into contact with grit, stones, sand and the like.

The arrangement according to the invention works as follows:

When the plunger 6 moves in its guide 5 under the action of a shock or thrust, the end of the leather sheath 28 secured to the casing 26 follows the latter inside the casing 27 so that the said sheath is protected against coming in contact with extraneous matter, without in the least interfering with the working of the plungers.

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. A train of carrier wheels for use on endless track vehicles as described in Specification No. 168,331 characterised in that the axes of the plungers (for example 6) on which the wheels are mounted lie in the line of action of the resultants of the forces or thrusts acting upon the wheels.

2. A train of carrier wheels as claimed in Claim 1, characterised in that the plungers (for example 6) are enclosed in

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fluid-tight devices each comprising two rigid protective casings (for example 26 and 27) telescopically engaging one with the other, a space being provided between  
5 the said casings in which is located a protective sheath (for example 28) mounted so as not to allow the escape of fluid and made of flexible material to allow free  
10 relative movement between the rigid protective casings and the plunger.

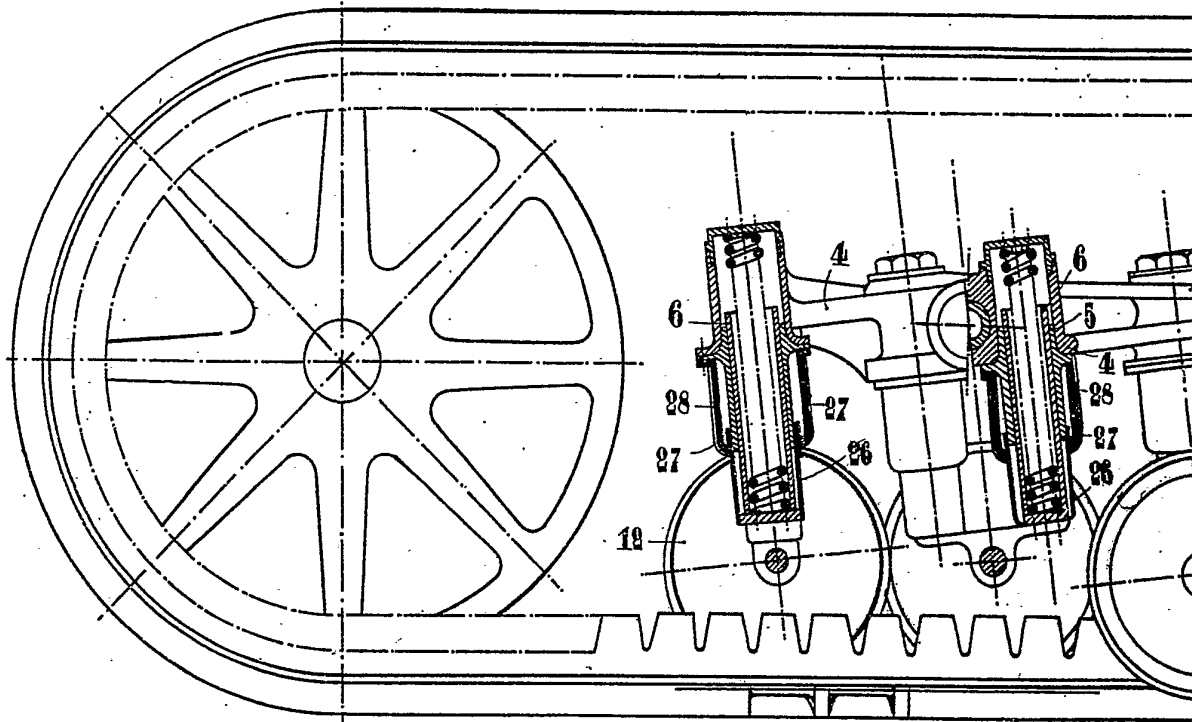
3. The train of carrier wheels substantially as described or substantially as illustrated in the accompanying drawing.

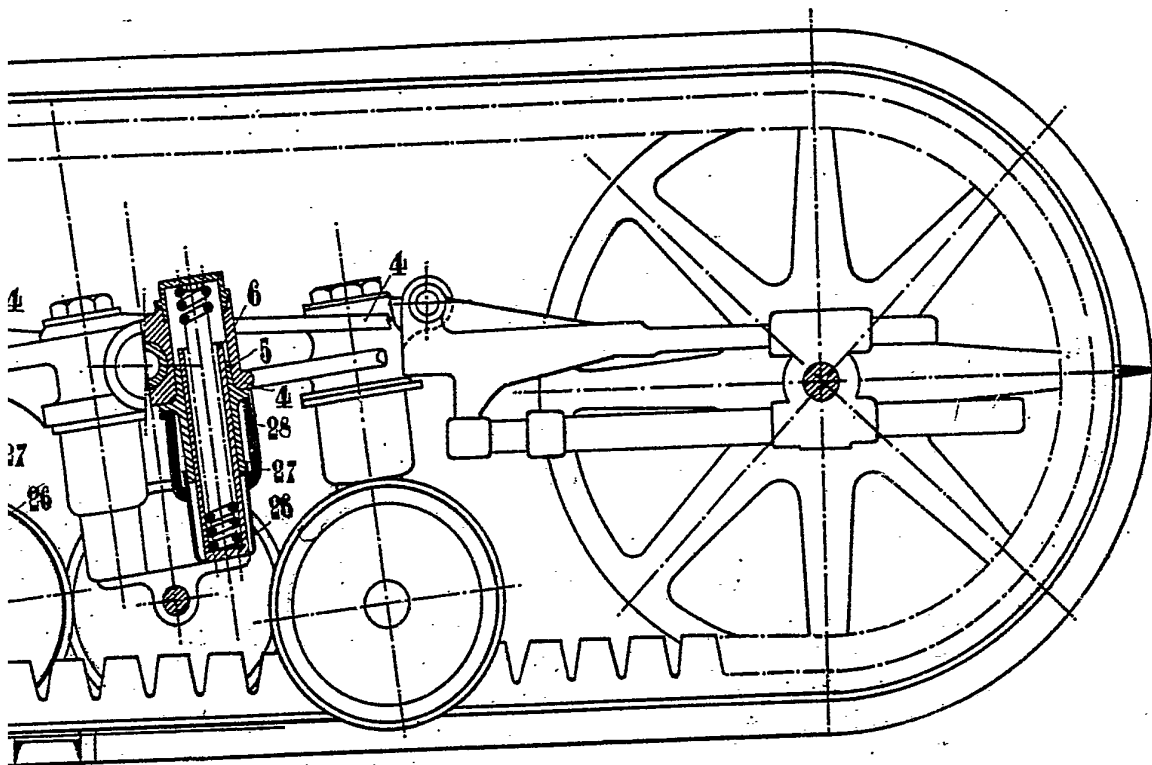
Dated this 22nd day of August, 1922.

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





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